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7>163%6' 13'H%" :' 4' %34" %6 '31' :"B% %2C6"3@' 13' $1' R 5C$$%6 G11?5' 31' H% ?% "B%6%?' 31' C@%6' 3" ' ' C3@' >4"?' 16' "$' 13' $1 ?' " ' !":=3%% ' 1 3=5' 31' >4@' ' C3"%5(

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(' ' 41B" ' !3 ' 4 F4@%5 =43' F=%6% 3=% $"65$' C@%6' 16' %2%"B%6' 1$' $1%' 54"?' G11?5' " ' 6C2<%' 463%6' 16' ! I2=4 :% B%$ "B% 3= '54"?'(G11?5' F"3=' "33% 3' 31' ! I>163' 3=% 54 7 %' " ' 5C2=' 245% 3=% 7>163%6' 5=4 ' 2%63"$"% "

C@%6' F"3=' ?%5": ' 31' %I>163' 31' 2%63"$@' 0C4 3"3@' U2(' 4 ?' :"B% %2C6"3@' 51' 31' ?1' D F3=' ' &1C6' 1 3=5(

F6"3%" :' 3=% 0C4 3"3@' 4 ?' 0C4 "3@' 4 ?' E %":=3' 1$($1%' G11?5' 1 ?' 16' 463%6%?' F"3=;3=% 4 7 % 1$' 3=%' C@%6' 16' 4"3%6%6' 3@=1' H6" :" :' 4 ?' ?%= %6%" :' 1$' $1%' 54 7 % C 31' $1%' ="%$%' $$"2%6' 16' $$"2%65' " ' $1%' %I3' $$"2%' 4>>1" 3%?' $16' $1%' 1 %$3"1 ' >$' 3="5' ' C3@' 5=4 '3=% ' 4 $" 3=%6% % 3%6' " 31' 1 ?' F"3=' C6%3"%5' 4 ?' % 4 3@' 1$' ?1CH % ' C3"%5' 45' 4$16%54"?' 31' ! I>163' $1%' 54 7 %;H1 4' $"?%' D F3=' ' $1%' 5>42% L1$ &1C6%' $3"1 3=5' F=1' 3=%6%C>1 ' 5=4 ' :"B% =" 7' 4' %63"$"243%' 1$' 5C2=' 1 ?(' ! 36%?' " $1' 3=% 3'$"2=' %63"$"243% =%' $14 ' ?% "B%6' 31' $1%' %62=4 3' 7>163%6' 4 ?' H@' B%63C%' 1$' 3=% 54 7 % 6%3"%B%(' 155%55"1 ' 1$' $1%' G11?5' 4 $" 5C2=' %6$"$"943% 3 " :' >61?C2%?' H@' 3=% 7>163%6' 5=4 ' ' "52=46:% ="5' 221C 3' $16' 51% 7C2=' 45' "$' $1% 43@Ye'?F?' % %' >4"?' 3=% F="2=' 1 ?' $16' 3=% ! I>16343"1 ' 1$' 3=% G11?5' 51%' ! 36%?' ' " 31' 5=4 ' 4:4" % H% ?"52=46:%?' 46"?' B4243%?' $"@' $1% %63"$"243% 1$' "5' 4.%53@%5' %462=%6' 16' ?%6 %462=%6' " ' 3=%

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E43%=1C5%5 316%=1C5%5 316% % 46?16' 13=%6 42%5 4?K3I'34<% 4 (221C 3 1$ 3=%'0 3@(4 ?' 0C4 3'3@' 1$ ="5 M4 ?'3=5 F"3=1C3 $1$6 %7"33" .:" i 3$4 2%4 ?' %462=' 4 ;"3=%'6 5%B%6@ 5C2=' 6%C4 '16%"35 % =C ?6%?' 1 ?'f %$43@'J$ f (4 ?'"$ >%"6 G11275 "=%3%7;'%7 4," " .:' i B%6@ 5C2=' %62=4 3 5=4 '$16 %

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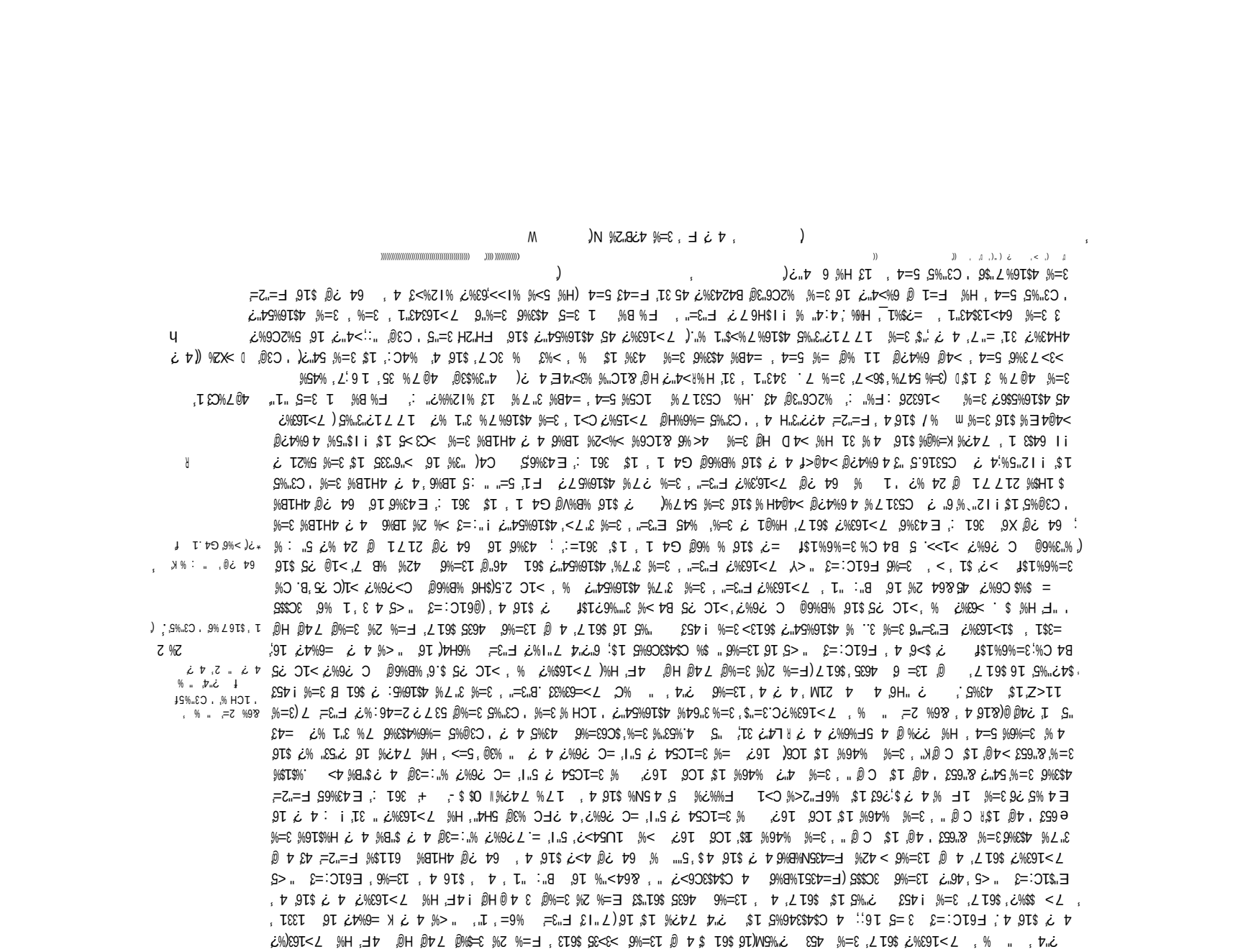
Q (N_ 2%65 4>>1" 3%?' ">' %B%6@' 163(?' 31' 3=% % ?' 3 43(4 ' >166%65' ?%62=4 35' 4 ?(%651 5' 21 2%6 %?' " ' 3=%' 4@7 % 3' 1$ 3=%' ' C3"%5' 4$16%54"?' 7 4@' < 1F' 31' F=17% 4 ?' =%$%' 31' >4@' 3H1' 54 7C' 4 ?' 31' 7 4<% ! 36@' 1$' 3=%"6' G11?5' " ' 7 4 %6' 45' H@' 3="5' $3' "5 " 3% ?%?' 3' "5 =%6%H@ ! 4$3%? =43 "< 4.%53"% ! !%' $61 ' 3" 7 % 31' 3" 7 % 1 7" 43% 1 7 7 "55 1 43% 4 ?' C3=16"`%' 5C2=' 1 7 7 "55"1 %6' 16' 1 7 7" 5$1 $35' 1 %U16 16' X %U $5' 16' 13=%6' $$"2%6' 16' $$"2%65' 45 ' =% 5=4 ' 3=" <%($"$3' 31' 4 4: ' 1 %$3' 4 ?' %B@' 3= ' 54"?' ' C3"?' " ' %B%6@' &163' 1$' 3=% !" :?1 7 % F="2=' 54"?' 1 7 7 "55"1$ %65' 1 %$3165' 16' 13=%6' $$"2%6' 16' $$"2%65' 51% 4>>1" 3%?' 5=4 ' 2 C% @' 433% ?' 43' "=% C531 7 % 1C5% 16' 13=%6' 42%' >CH "2< @' 4>>1" 3%?' " ' 3=% 163' 16' 42%' 31 ' 13"65' 1 ' 33% ?4 ' 2% F="2= =% C' 3=%@' 5=5" ' H% 6?5>%$$"B%.@' 4>>1" 3%?' 43' 3=% C5C4 ' =1C6%5' 4 ?' 3" 7 %5 " ' F="2=' 3 % $$"2%65' 1$' 3=% C531 7 %5' ?1% 16' 1C:=3' 31 ' 433% ?' 4 ?' 3=%6% 5=4 ' 1% 4 ?' ! I%2C3% ' F=4351%B%6' 1C:=3' 31' H% ' 1 % 4 ?' ! I%2C3%?' 1 ' ="5' 16' 3=%"6' 4635' >C65C4>3' 3%63=% 6C 3' 6%>15%?" ' =" 7' 6 3=% 7' 42216$$" :' 31' 3=% 36C% " 3% $ 4 ?' 7 %4 " :' 1$' 3="5' $3(' ((Q %' 7>163%65' 31' 2 0' ' ' ' $' %C4$3%?' ' C3=16"3@' 4$16%54"?' =43' 1% %62=4 3' 16' %62=4 35' 16' 4 @' 13=%6' %651 ' 1> 3=?6 64 "7%5(' E=4351%B%6 ! 3%". ' 4 @' G11?m' E 46%5 4 ' %62=4 ?"`%5' $61 7' H%@1 ?' 3=%' %45' 3=43' 46%' @4H %' 31' 3=% ' C3@%5' "7>15%?' H@(3="5' ' 5=4 ' ! 3%6' ="5' 16' 3=%"6' 1 7 7 1?"3"%5 " ' 4 @' H3=%6' 3=% ' 3=%' 4 7 % 1$' 3=% 36C% 7>163%6' (1$' 3=% 54"?' 1 7 $""1?"3"%5' 16' 4 ' 74<% C5% 1$' 4 @' 4 7 % 1$' 4 @' %651 ' F=4351%B%6' 31' 1 1C6' ="5' 16' 3=%"6' G11?5' F=%3=%6' "3' H% F"3=' 16' F"3=1C3' 3=% 21 5% 3' 1$' 5C2=' %651 ' B 1 ' >4" % 1$' 16%"3C6% 1$' ?1CH % ' C3@%5' 1 ' 5C2=' G11?5' 51% $1C ?' 16' ?"521B%6%?' 31' H% ! 3%6%?' 16' 1 1 6%?' 21 3646@' 31' 3=% 36C% 7 %4 " :' =%6%1$(Q (G11?531' H% ' 4 ?%?' ^' C 29 o' $16' 3=% H233%3' ! %B@" :' 4 ? 1 %$3" :' 4 ' 4 ?' >B%6@' 1$' 3=% 54"?' ' C3"%5' "7>15%?' H@ 3="5' $3' 4 ?' >6%B% 3" :' 3=% X1.@ &6>?5' 4 ?' ' %2%"35' F="2=' 74@ H% =4?' 4 ?' C5%?' H@' %B" ! ?"5>15%?' %651 5' 4 ?' C ?C% 64$3"2%5' 31' % C?% 3 ."5' $3 %%' "3' $C63=%6' % 4$3%?' H@' 3=% C3=16"3@' 4$16%54"?' =43' 1% G11?5' E 46%5' 16' .%62=4 ?"`%5' @4H %' 31' 3=% ' C3@%5' H@".'H"5' ?3(" 5 ?' 5H?' $624"[4 ?' 4$3%6' 3=% 54"?' &1F6% 4 ?' 3F% 3@%3=' ' 4@' 1$' C % " ' 3=% @%46% 1$' 1 6' 16?' % 3=1 7"?' 5"I' =C ?6%?' K%" 3@' 4 ?' $" % ?C6%" :' 3=% 21 3" C4 2% >$ 3="5' $3' H% ?"52=46:%?' 16' 4"?' 1 ' 4 ?' 1C3' 1$' 4 @ ="'>>' 1331 7 %' 1@' 46<% ":=3%6' 143% 16' %55 ' D F=4351%B%6' 16' >C33' 1$' $61 7' 4 @' E=46$%' 9%@' 16 X 42% 1'' 4 ?' =33' 4 @ =$>> 1331 7 %' 1@' 46<% ":=3%6' 143% 16' \13=%6 %55 " F=4351%B%6' HC3' 1 % @' " R 5C2=' 4 %$' 4 ?' 3(' 5C2=' 3"1 %5 4 ?' 42%5' 4 ?' 1% 13=%6B6"5% 3=% ' 3=%' 54"?' G11?5' 16' %. 2=4 ;?"`%:' 7 4@' 16' 1C:=3 31' H% '$1"5 $">>%?' ' 3?4?$$ 4' 16' > 33' =431' 433@ =">>' 16' 13=%6' %55% ' 31' H% 4"?' 1 ' =16%' 16' 4?% ' >C33' 1$$' $61 7' 4 ?' 42216?" :' 31' 4 @' =">>' 16' %6' "$%55% ' H@' D %63C% 1$' 4 ?' 42216?" :' 31' 3=% 36C% 3% 3' 4 ?' %4 " :' 1$' 3=% 5%B%64 ' 4F%5' 4 ?' $165% KK; R 343C3%5' 74?% 4 ?' ! 4$3%?' $16' 3=%(&4@ 7 % 3' H$' ="5' 4. 3@%5' C531 7 %5' ;4 ?' CH5"?"%5' >$' 1 4:% 4".?' 1C$"?4:% 4 ?' $16' 1 %$3">:' 4 ?' %B@" :' 3=% 54.?. C3@%5 ?' $16' >6%B% 3" :' $64C?%5(' 4 ?' 6%:C 43" :' HC5%5' " ' "5' $%.%53@(%5 % 4 3"%5 .' $16 7 %6 $35' "' $162%(C531 75f 4 ?' 4 ' 3=% 4C?5' % 4 3"%5' 4 ?' &16$%"3C6%5' 7 % 3"1 %?' " ' 3=%' 4$16%54"?' $35' 4:4" 53' 453%65' 1$' ="'>>5 E=46$" :%65' %4>'% ' 4 ?' 143% 7 % ' 46 7 % 4 ?' 163%65' 5=4 ' =% '31' 4 ' 3% 35' 4 ?' C6>15%5' " ' $C ' $1 2%' 31C2=" :' 4 ' 21 2%6 " :' C@' >$' L% G11?5' ?' %62=4 ?"5%5' 7 % 3"?' %?' " ' 3=" 5' $3' 4 ?' 3=% ' C3@%5' "7>15%?' 3=%6%C>1 ' 845' 35% ' " ' 6% 43"1 ' 31(3=%"6' 4 ?" :' 3' 7>16343"1 ' 45' 43' 3=% 14?" :' 1$' 3=% 54 7 % 43' ! I>16343"1 ' 45' 4 51%($16' 8=%"6' 2466@" :' 43' 4 @' "7 % 1453F"5% $61 7' 1 % 163' 3>' 4 13=%6 ' 45' "$' 3=% 54 7 % F%6% =%6%" ' >463"2C 46 @' 4 ?' 43' 46:% ? 1.B%6 '1$ $16 7%6 ?"5 "' ' " 13 755" > 65 C ?%6 '3="5 ?3(X >2"3>?f D' 3331' 1 7 7 "542 %6' 13' 2 7 7 "55"1 %65' 1 %$316' 16' 1 .%$3165' $$"2%6' 14' $$"2%65' 4>>1" 3%?' 45' 4$16%54"?' $16' 3=% 1 %$3" :' 1$' 3="5' $"C3@' 46C' =%6%H@ 7>1F%6%?' $16' 3=% H%33%6' 1 %$3" :' 8=% ' C3@%5' "26%H@" 7>15%?' 4 ?' 3=%6%" ' B1"?" :' " ' $64C?5' 4 ?' C ?C% >64$3"%:5' F"3=' 4 ' 3=% 1F%65' 4=?' C3=16"3"%5' 3=% 1 7 7 "5 5"1 %65' 1 %$3165' 16' $$"2%65' ' 1$' 3=%' C531 7 % 1 5% '=43%' 16' 74@' =4@%' H@' B%63C%' 1$' 3=%' 4$16% 7 % 3"1 %?' 4F%5$" ' 6% 43"1 ' 31' 3=%' 74 4:%7 % 3' 1$' 3=%' C531 75( ) ' * + % 4 3"%5 =1F' 6%21B%61?(7 '" H%% "3' $C53=%3' ! 4$3%?' H@' 3=% C 1 $"% 4$16%54"?' 6=43' 4 ' % 4 3"%5' 4 ?' &16$%"3C6%5' " 2C66%?' H@' B%63C%' 1$ 3="5' $3' 5=4 ' 4 ?' 74@ H% 6%21B%6%?' =@' ??"H ' 1$' (' "$" 4" 3' 16' $16 743"1=' " ' "5' 4.%53@% ' 1C63' 1$' ! I2=% C%' 16' " ' 4 @ 1$'("5R 4.%53@%5' 1C6 5.1$' %216?' 43' E%53 7" 53%6' ?' 3=43' 1 % >@%3@ 1$' 4 ' 7"4 3"%5W4 ?' &16$%"3C6%5 =%6%" ' 7% 3"1 %?' 5=4 ' H% 31' 3=4(9=W:5 4.%53"% ' "5' %"6%5' 4 ?' C22%55165' 4 ?' 3=?' 1 =%6' 1@%3@' 31' 5C2=' %651 ' 16' (%651 5' 45' 5=4 ' C% $16' 3=% 54 "% E=%6%" ' 1% ! 551":' % 613%23"1 ' 16' E 4:%6' 1$' 4F' 5=4 ' H% 4 1F%?' 16' 4 @' 7 16% 1%526%1 @' 7 4@' 3=% ' 1 % 7>46 2 "2% 61B"?%?' = F4@%5' =43 >1$3 %651 ' 16' %651 5' 5=4 ' 5C% $16' 3=% 4$16%54"?' % 4 3"%5' 16' &16$%"3C6%5 HC3' F?=($$"2%6' 1@' $""2%65' 45' 5=4 ' H% ' 4>>2 3'3?? H@' "5' 4.%$3"% 16' H@' 4 @' C3=16"3@' ?%6"B%?' $61 7' ="7' $16' 3=% 74 4:7% 3' 1$' "5' C531 75' 1$(' 3=% ' C3"%5' "7> 5%?' H@' 8 "5' $3(?' H%% "3' =%6%H@' 4 51%' ! 4$3%?' =43' (4 ' $$"2%65' ;' %>C3@%5' %6<5' 16' %6B4 35' F="2=' 5=4 ' =4B%' 5" @' $$"2%' b6 7>$1@7 % 3' " ' 3=%' 4 4:" :' 1$ %$3" :' 16' 33% ?" :



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)o' B("(' - - 74?% " ' 3=% F% $3=' 46% 1$' "5' 4 % 4.%5?% > :' "46.%5 $=Y' %21 ?' ! 3"3C %?' ' CH5"?"% :64 3%?' 31' 3=% 9" :'
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2 o' H%% "3' $C63=%6' ! 4$3%?' H@' 3=% C3=16"3@' 4 j %54"?' =43' 3=% 5%B%64 ' 43%5' 4 ?' ' C3'"%5' 1 ' ! I2"5%' C>1 ' 361 :'
F43%65' 64 ?'"%5(4 ?' 13=%6' . 165 4H1B% ' .%".3"1 %?' 5=4 ' H%' 64"5%?' %B@%?' 21 %$3%?' 4 ?' >4"?' C 31' @1C6' 4.%53"% @1C6'
)O' 46(' 9 (' 2('O-(%'6%5' 4 ?M C22%55165' ?C6%" :' 3=% "7% H%$16%' 7% 6'37% ' " ' 3=% 54 7% 4 %6' 4 ?' &16 "% 4 ?' H@' 5C2=' C %5' %4 %5'
4 ?' E4@%5' 4 ?' C ?%6' 5C2=' 1 43' 5 4 ?' &16$?3C.$%5' 45' 46% 7Y 3"1 %?' %I>6%55%?' 4 ?('?"6%$3%?' " ' 1 >' $3' 1$'
46 "47% 3' 74?1' # ' F% $3=' %46% 1$' 3=% 4": % 1$' 1>6' 43?' G642"1C5' 1B%64": %; 9" :' =46 %5' 3=% %21 ?' 1$'
%55%?' %716@' ! 3"3C %?' ' $3' $1"/ 34<% 7 :' 4F4@' 3=% 1C Y1$' E 46?5 4 ?' "B%6"%5' 4 ?' % C6%5' " ' 4>"3%' 4 ?' H@'
)A'G46((' 2X""(9 ":=35 %B"%>' 4 #.' C6B%@4 2% 4 ?' $16' 5%?%" :' $' %B = C% C>1 ' ="5' 4.%53"% " ' "%C' 3".%6%1$' ?' 4 51% (" {1 %'
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$16' 3=% H%33%6' 6?%6" :' ?' 1 2$3" :'3=% 'C3@ '1$'! I2"5%' 7"?' >6%B% 3" :' 3=% HC5%5' 3=%6%" ' 16;" ' %"3=%6' 1$'3=% 7
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' "53" %6' 21 2%4 " :' 2 o' H%% "3' $C63=%6' % 4$3%?' (H@' 3=% 'C3=16"3"% 1$' 3="5' >6%5% 3' 46 @4 7% 3' =43' 31' 3=% ! ?' "5' 4.%53"% 74@' 13' H%
' 1F'KE" %5' U2('%$64C?%?' 1$' 3=%(' C3@%5' =%6%H@' :64 3%?' 4 ?' "7>15%?' 1 ' 361 : E43%65' >4' "37' 16' >"6"335' =43' "$' 4 @' ' "53" %6'
16' 4<%6' 1$' "@' 1F' E" %5 >"6"335' 16 361=: E43%65' 5=4 ' 43' 4 @' "7%=%6%4$3%6' ="?%' 21 244%' 16' 21 B%@' 4 @' 1F'
E" %5' >"6"35' C4' .37' 16; 361U:' E43%65' $61 7' 3=% 5":=3' 16' B"%F 1$' 3=% G4:%6' 16' G4:%65' 4>>1" 3%?' 31' 34<% 4 '
221C 3'(1$' 3=% 54 7% F= %H@' "5' 4.%53"%' 13< "5' 17 7"55"1 %65' 5=4 ' 16 7 4@' =% ' %$64C?%?' 1$' 4 @' 3=% ' C3@%5'
'$ 0 - +' = 3' %B%6@' 5C2=' '"53" %6' 16' .?3%6' 1$' C2=' !1F E" %5' >"6"35' 16' 361 : E43%65' $16' %B%6$' G4 1 '
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%"6%5' 16' C22%55165' 4 ?' 3=% 3=%6' 71@%3$% 3=%6%1$ 31 ' 3=% ' "521B%6%6' 16' 31' =" 7' 16' 3=% 7' 3=43' 5=4 ' $ $16 7% 16' C% '
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7>163" :' " ' 45<5' 1$' %55' 1 3% 35(
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$ 1% 64 ?'"%5' 5" : % 16' ?1CH % " ' '3="5' $3' .W%W3"1 '"%?'5=4 '(H%' 7>163%?' $617 4635' H%@1 ?' 3=% %45' " ' 4 @' %55% ' 16
45<%' F="2=' 5=4 ' 13' 21 34" %(5"I3@' G4 bXA' 43' 3=% %453' C>1 ' 4" % 1$' 16%"3" :' 1$' 3=% 54"?' 64 ?.$ 16' 3=% B4 C%
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! I2% % 3' < - $ ' +' ' 13=%6' =4 $% ' 5C2=' 465> ' 4 ' 5=4 4 ;?' F" ' $16 7% 16' 5C% $16 3=% 54 7% 31' H% %21B%6%?
1$' ' 7>163%6' 16' 61>6"%316' 3= %1$' H@' 4" 3' " ' $3"1 ' 1$' ' %H3' 16' $16 743"1 ' " ' 4 @' 1$' "5' 4.%53@%5' 1C635
1$' %216?' 43' E%53 7" 53%6' F=%66" ' 1% !551": % E 4:%6' 1$' 4F' 16' 613%$3"1 ' 5=4 ' H% 1F%?'
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' 2 o' %%' "3' $C63=%6' ! 4$3%?(4 ?' 6?4" %"<' H@' 3=%' C3=16"3"%(4$1$:4"?(=43' 4 ' 4 ?' %B%6@ 3=%' $$"2%6' 4 $3' $$"2%65'
F=1' 5=4 ' H% 21 2%6 %?' ">' k=% %B@" :' 1 %$3" :' " >?' %2%"B" :' 39% ' C3'"%5' 46"5%" :' H@' 3="':' " $3 =1% <%%>% 4' 5%>4643%'
4 ?' ?"53" $3 221C 3' 3=%6%1$' 4 ?' >4@ '3=% 547% " ' >%>"% " 31' 3=% %2%">3' 1$' "5' 4.%53@%5' ! I2=% C%6' E %%<% @'
4 ?' C>1 ' %: %$3' 4 ?' %$C54 ' 1$' 3=% 547% 5=4 ' 7%C66' 3=% % 4 3"%5' &16$%"3C6%5' '474:%5 (4 ?' 1535' 45' 13=%6' 3=%
$$"2%65' 1$' 3=% ! I2=% C%6' =%$3" ' 4$3%6' 7% 14%?' 5=4 ' =% "4H %'31' F="2=' 1 %@5' 51% 4"?' " ' 5=4 ' H% 4>> "%?' 31' 3=%
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(@" (%@51 % ?" :' ' 2 o' H%% "3' $C63=%6' ! 42$%.' 4 ?' .47%?' H@' 3=% C3=16"3"% 4$>6%54"?' =43' 4 ' 4 ?' %B%6@' %651 ' 4 ?' >%651 5' F=1'
4 @' 1 %@' 13' ' =4 % ?' 4 @' 1 %@5' =13' %< %%?" :' &>C6%' =C ?6%?' 3=1C54 ?' 1C ?5' " ' 3=% E=1 %' 31' 1C6' 4.%53"% C>1 ' 3=%
%I2%%?">:' 6%?"'3 1$$3$1 ' $3(4 ?' 4@' 3=% 54" % "$331' 3=% %%$3>3' 1$' 3=% .I2=% C%6' 5=4 ' "7 7%?"43% @' ="B%' 4' 4 @' 1$' 14 %
- N NNN' 1 ' 36C2<% $16' 3=% 54 7% 4 ?' 4 ' 6?%6' $16' H"5K %>4@7% 3' H%46%" :' 3=% 54 7% ' 43% F"3=' ="5' 4 @' " ' F="2=' 6?%6' 5=4 ' H%'
6%?"'3' 1$' 31' =4B%' 4' 4 @' 1$' ' 4 51% 21 3'C %?' 4' RE 4664 3' $16' 4@7% 3' 1$' 3%6%53' $16' &16H%74 2% 13' %I2%%?" :' 3.'% 43% 1$' !":=3' 1C ?5' >%6'
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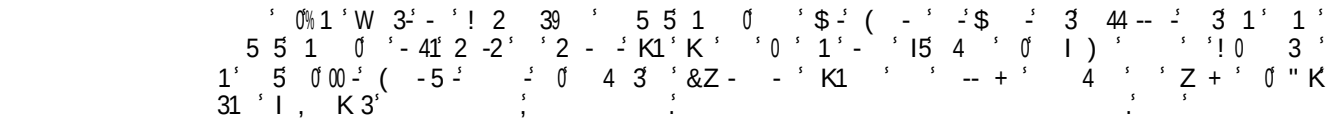

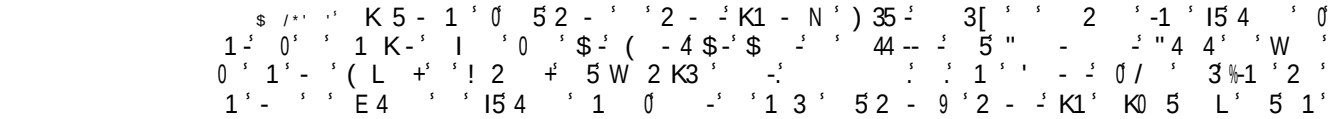

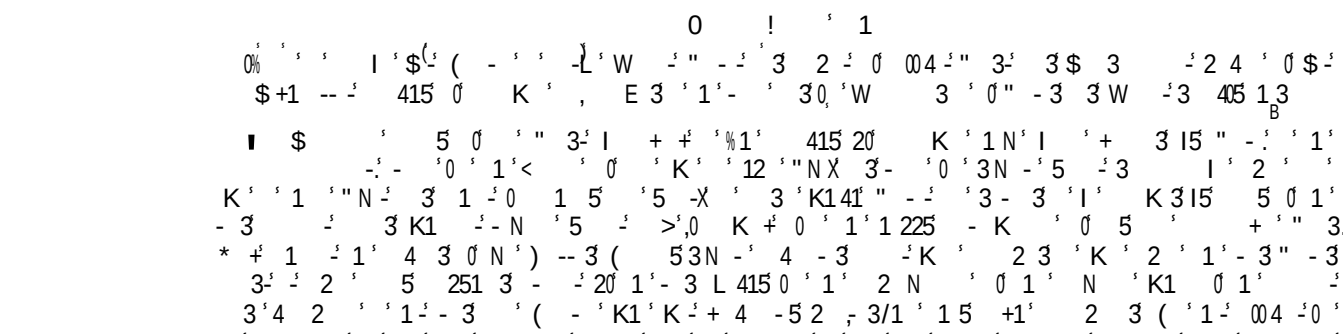

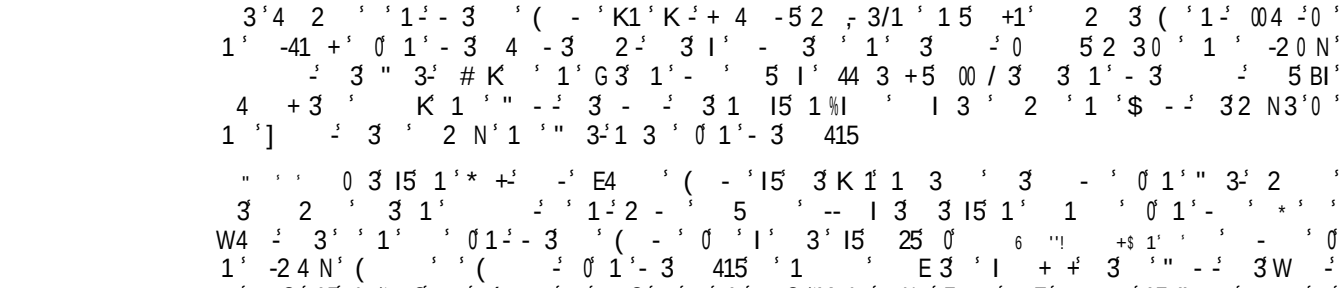

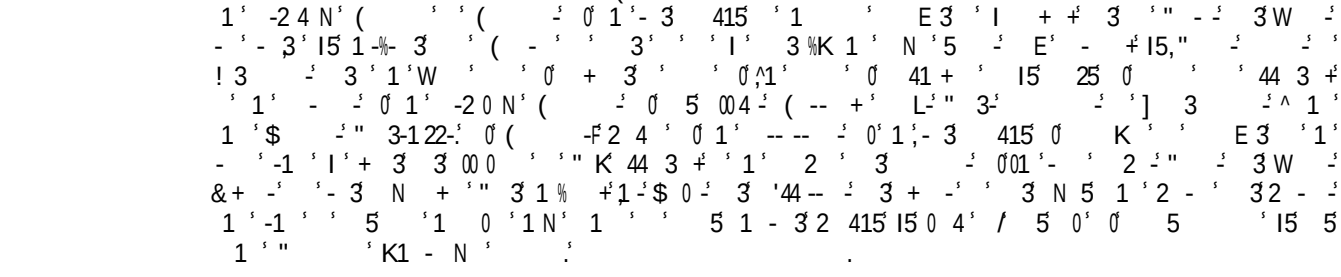

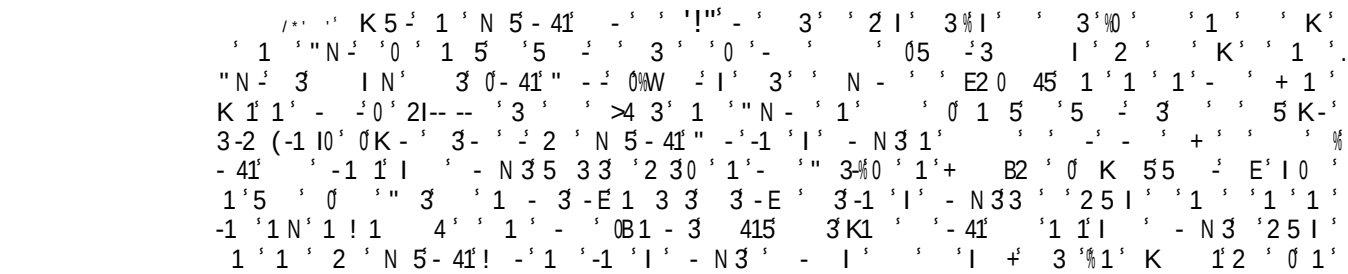

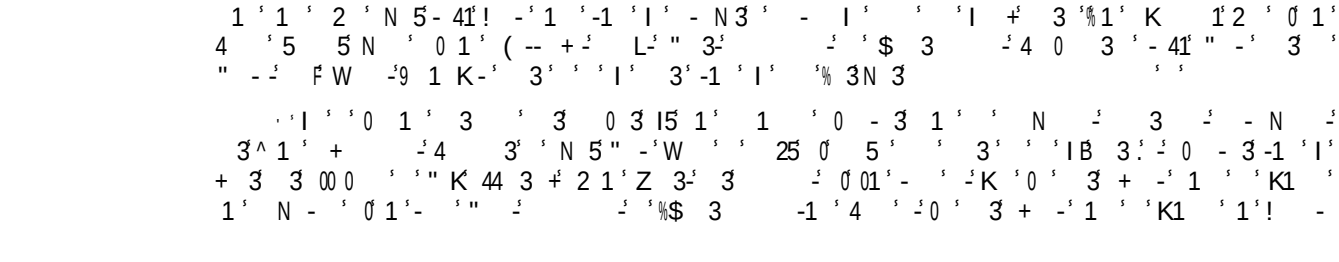

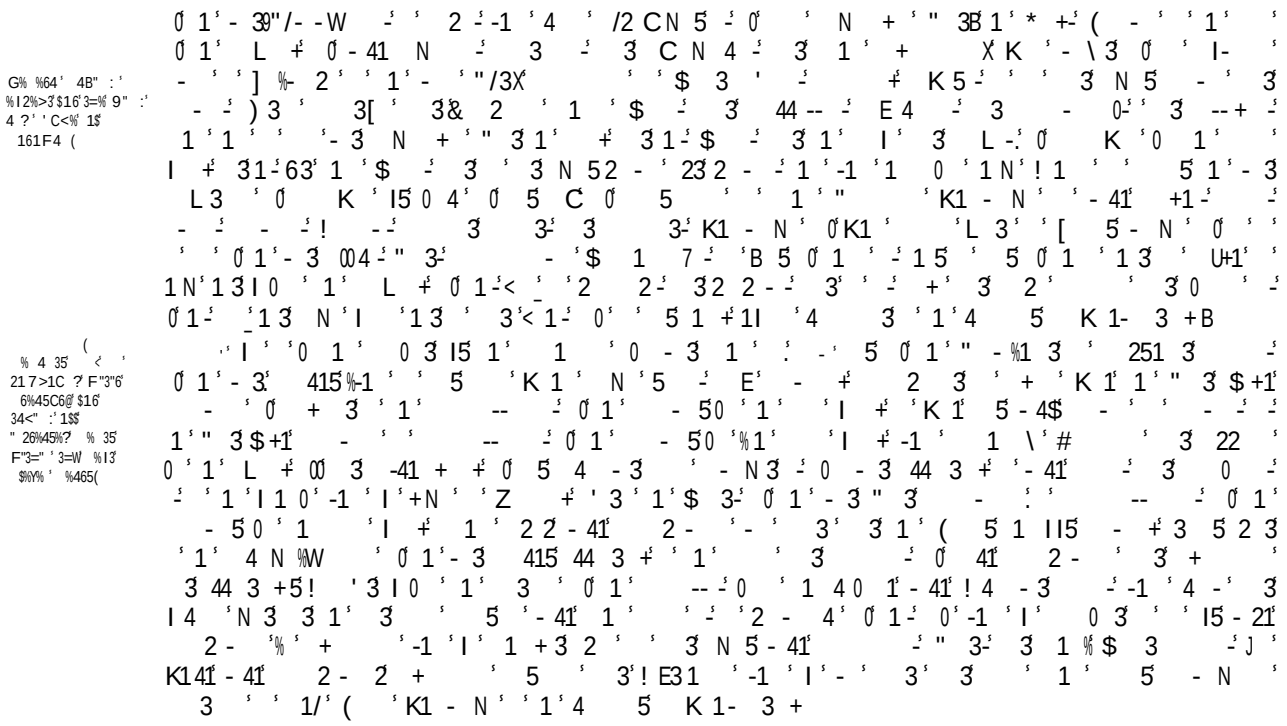

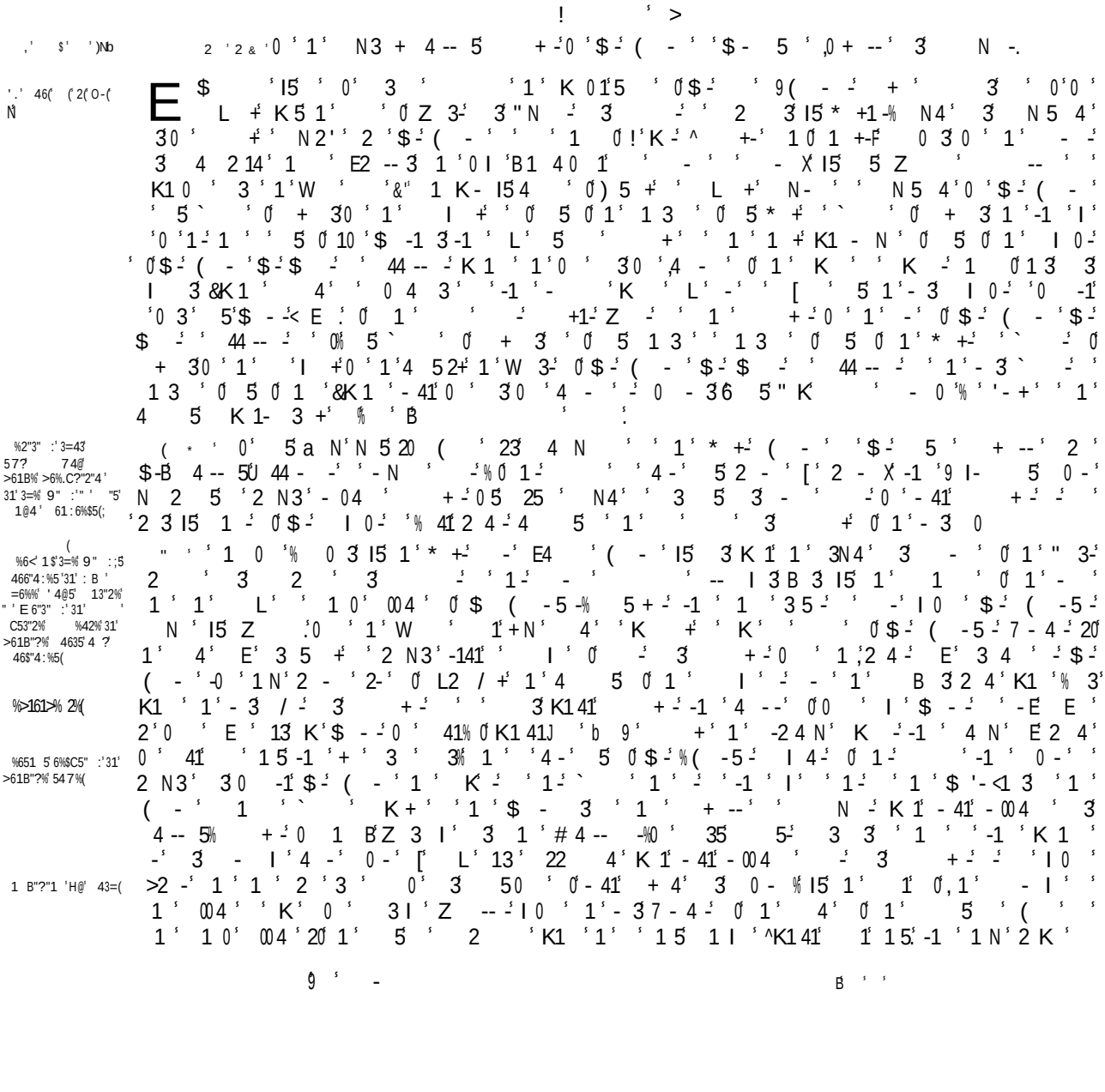

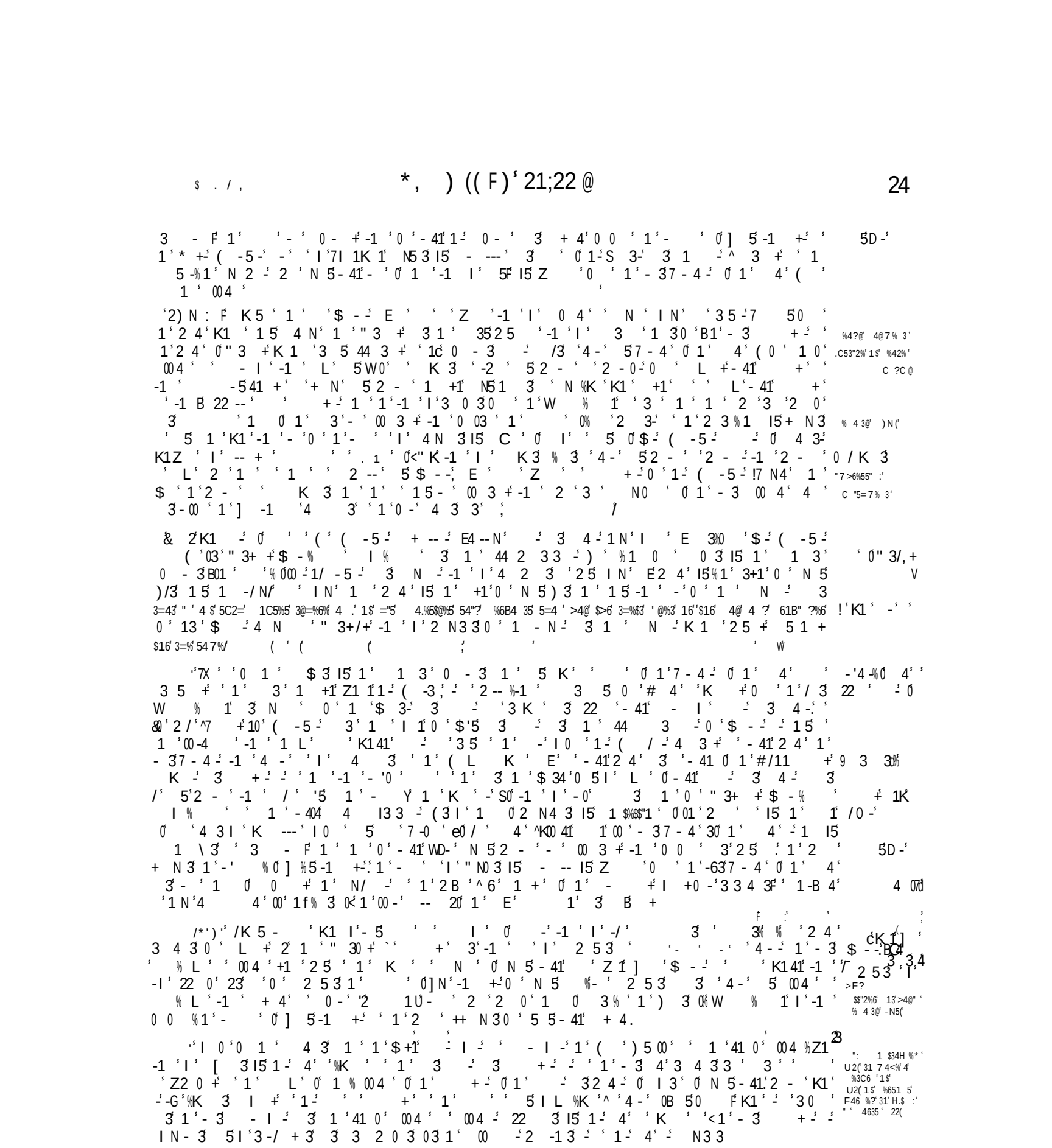

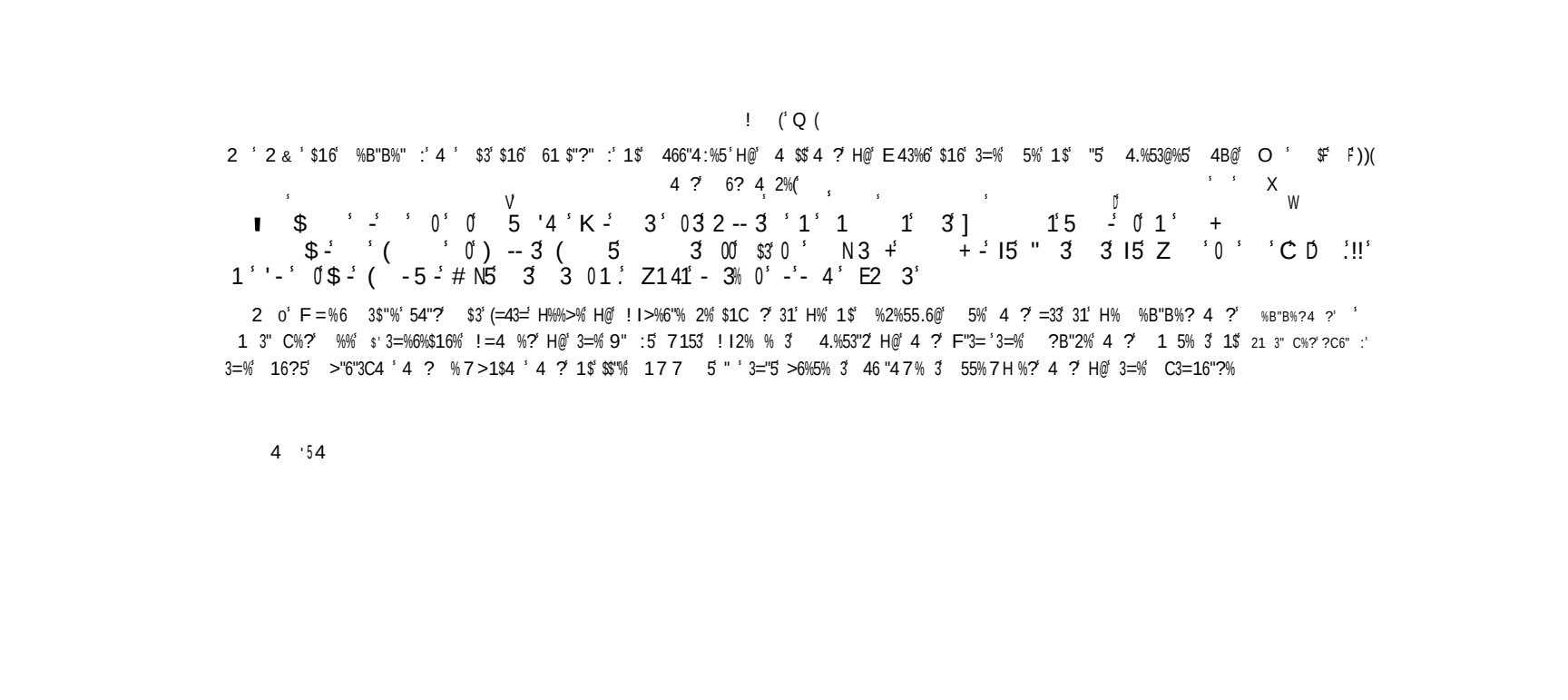

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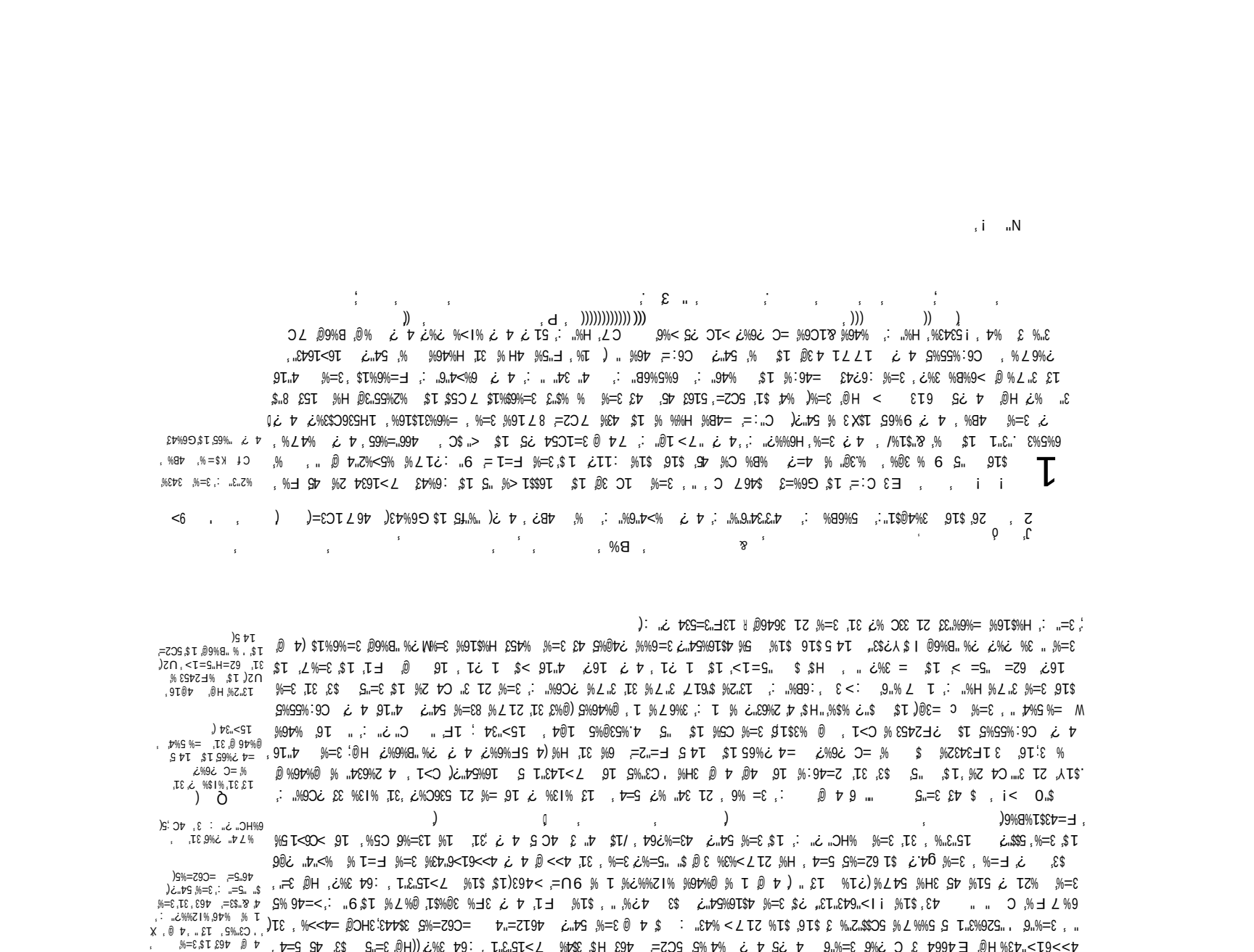

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An Act for removeing and preventing all questions and disputes touching the assembling and sitting of this present Parliament.

For preventing all doubts and scruples which may in any wise arise touching the meeting sitting and proceeding of this present Parliament Bee it Declared and Enacted by the King and Queenes most Excellent Maiestyes by and with the advice and consent of the Lords Spirituall and Temporall and Commons now assembled and by authority of the same That the Lords Spirituall and Temporall and Commons convened at Westminster the two and twentyeth day of January in the yeare of our Lord one thousand six hundred eighty eight and there sitting on the thirteenth day of ffebruary following are the two houses of Parliament and soe shall be and are hereby declared, enacted and adjudged to be to all intents constructions and purposes whatsoever notwithstanding any want of writt or writts of Summons or any other defect of forme or default whatsoever as if they had beene summoned according to the usuall forme, And that this present Act and all other Acts to which the Royall Assent shall at any time be given before the next Prorogation after the said thirteenth of ffebruary shall be understood taken and adjudged in Law to beginne and commence upon the said thirteenth of ffebruary on which day their said Maiestyes at the request and by the advice of the Lords and Commons did accept the Crowne and Royall Dignity of king and Queene of England ffrance and Ireland and the Dominions and Territories thereto belonging. And Bee it further Enacted by the Authority aforesaid that the Act made in the thirteth yeare of king Charles the Second Entituled An Act for the more effectuall preserveing the kings person and government by disableing of Papists from sitting in either house of Parliament and all other Acts of Parliament as to soe much of the said Act of Acts onely as contains the taking the Oathes of Supremacy and Allegiance or either of them in the said Act of Acts respectively mentioned by any Member of Councells of either house of Parliament (with relation to their sitting and voteing in Parliament) shall be and are hereby repealed to all intents and purposes any thing in the said recited Act of Acts to the contrary notwithstanding. And Bee it further Enacted that the taking the Oathes herein

to the page 53 of Vol. VI. of the Statutes

after mentioned and the makeing subscribeing and repeateing the Declaration in the said Act of the thirtieth yeare of King Charles the second mentioned by every Member of either house of this present Parliament from and after the first day of March next ensueing in such manner as the takeing the said Oathes of Allegiance and Supremacie and the makeing subscribeing and repeating the said Declaration in the said last mentioned Act are required shall be good and effectuall to all intents and purposes as if the said Oathes of Allegiance and Supremacie had beene taken and the said Declaration had beene made subscribed and repeated in such manner and at such time as by the said Act or Acts of any of them they are required And that in all future Parliaments the Oathes herein after mentioned and the Declaration in the said Act made in the thirteth yeare of King Charles the second mentioned shall be taken made subscribed and repeated by every Member of either house of Parliament within the time and in the same manner and forme and under the penalties and disabilities as the said Oathes of Allegiance and Supremacy and the said Declaration by the said Act of the thirteth yeare of King Charles the second are limitted ordained and appointed to be taken made subscribed and repeated and not at any other time or in any other manner to enable them to sitt and vote in Parliament any thing in the said Act or Acts or any of them to the contrary notwithstanding. And it is hereby further Enacted and Declared by the Authority aforesaid that the Oathes above appointed by this Act to be taken in the stead and place of the Oathes of Allegiance and Supremacy shall be in the words following and noe other I A B doe sincerely promise and sweare that I will be faithfull and beare true Allegiance to their Maiesties King William and Queene Mary soe help me God. I A B doe sweare that I doe from my heart abhorr detest and abiure as impious and hereticall that damnable doctrine and position that Princes excommunicated or deprived by the Pope or any Authority of the See of Rome may be deposed or murthered by their Subiects or any other whatsoever and I doe declare that noe forreigne Prince, Person, Prelate State or Potentate hath or ought to have any power Jurisdiction Superiority preeminence or Authority Ecclesiasticall or Spirituall within this Realme Soe help me God. Provided alwayes and be it Declared that this present Parliament may be dissolved after the usuall manner as if the same has beene Summoned and called by Writt.

Reviewed by Davies & Lewis

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455% =1745' 11<%' 1$' 42< %@' !C2@' 9 ": =3 %@' !5 C"6%5' 3=1 @" 3C63' %$$%6@' ": =3" : 4 % 1= ' %66@' \ 15C4]' %F"5' !5 C"6%5' 1= ' (7"3= ' !5 C"6%' %6<%' 1$' 3=% %42%' 1= ' %@ 4 ?5' 4 ?' E" "47 ' 463" ' G% 3 % 7 % ' E" "47 ' E" "5' !5 ' 7463' G11?% 1C : =' %62=4 3' 4>34" % 43=4 "% # F% ' 4>34" % E" "47 ' E" ?@' 6' H64=47 ' G64B%5' 4>34" % (163=' 4>34" % =6"531>=%6' % ?4 ' 6' =1745' ! 31 ' 6' G%16 : %' &16?' 4>34" % 1= ' 3%>=% 5' 4>34" % % 6@' 55% ' 6' !6%%74 ' 6%F%6' E" "47 ' 1= 51 ' % 6@' ' %3="2<' % 6@' C55% ' 15%>=' 3% % 5' !5 C"6%5 4>34" % G%16 : %' &% %@' 4>34" % 1= 3 3=' "2=46?' F" ' E" "47 ' E4<% " ' 43=4 "% ' F" :' 1= ' "21 51 ' G% 3' 1= ' 34 @4 ' !54' E" "=7' GC 531=' !5 ' &64 2"5' =" ?% G% 3' 1= ' E" 51 (

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%46' 1= ' =" 9>5' %=% ""4=' 74 ' "6' 15%>=' E" "4751 ' "6' =1745' "3 %3> ' "6' =46 %5' 1$3%6% ' "6' 3%>=% ' &1I ' "6' 1= ' 133> ' 461 %3' E" / C6H16?' !5 ' "6' =1745' 17>%551 ' "6' %6" (E "2=' 9 ": =35' "6' 1H%63' G4@%6' "6("2$3W?' %7 > % 9 ": =35' 1$' 3=% 43=' "6' 1H%63' @%' 461 %3' "6' =6"531>=%6' C5 : 64B%' "6' E" "47 ' 6>%' "6' =6"531>=%6' E@%33' 9 ": =35' $ %336@' GC@' !5 ' =" ">' C5 : 64B% !5 ' "6' 47%5' 4@%5' 9 ": =3' E" "47 ' 6"?: %74 ' !5 ' =1745' "? =47 ' ' 1$316' 1$' =@42<%' E" "47 ' 1C3 %@' 1= ' 1C3 %@' !5 C"6%5' %6 46?' G6%% @" %' (=6"531>=%6' 4 % !5 C"6%5' % 6@' =@4 %' 43=%F' 133' 1= ' C664 2%' "71 ' 7"3=' 1= ' 4 ' G%16 : %' 4 ' 166"5' 3' 1= ' =42% 15 4=' '64" %5' G316 : %' 11>%6 1= ' 4" %5' 1= '\ C" 5]' G% 3 % 7 % ' 127 % ' "2=46?\ C" 5]' !?71 ?' :46' 1= ' C :' "2=46?' E=%% %6' 1= %51 ' "2=4% ' 6 1 ?(G% 3 % 7 % ' ' 4B"?' 64F$16?' !5 ' =46 %5' 47>4" % $ ' " %5' 11<%' "6' E" "47 ' ' C331 ' 1 3' "6' C ">=6@' E" 2=' 9 ": =35' ?6%F' ZF6% 2%' E" "47 ' =4F' !5 C"6%5' 1= '(C @' 4 >=' C32=" 51 ' 46<%' 4F %' E" "47 ' "2=46?5' G% 3 % 7 % ' "6' "2=46?' ' ' C331 ' 9 ": =3' E" "47 ' 4"3=F643% !?F46?' 1 34 : C% =.6 %5' 1C=34 : C%(=%' 1 1C64H % %6% : 6" % %63"%' 4 ?' =46 %5' %63"%(!?71 ?f E4 %6' E" "47 ' =% %@' !5 "6%5' "6' ' % @' 5=HC6 =47 ' 63=C6' 6"16' 47%5$ 7"3=5H@' =46 %5 9 13' 1$' 4" 3' %7 % 3' ' 4 %5; =1745' %@31 1$' 3=% 547% ?$" ' E "$ @' !?F46?' %174 5' 1$' 3=% 547% "2=46?' 11>%6' 1= ' 155" : 31 ' 433="45' 11>%6' %F"5' 6%52133' 1= ' 133" : %6' 1= ' &6153' "2=46?' 47>"4 ' 1= ' 463" ' G% 3 % 7 % ' E" "47 ' G6%% % 6%F%6' !645 7C5' ' 6@?% ' 4C 1?6% ' %6<%' 1$' 3=% 1C5% 1$' 17 71 5' 1= ' 11<%5' G% 3 % 74 ' 453%6' =1745' 61F % !64 ?"5' %: C5' =46 %5' G=%3BF ?' !5 C"6%5' 1= ' C: 4 ?' E" "47 ' 13' G% 3 % 7 % ' 3=1 @' 1F' 1 : %6' G" " : =47 ' &64 2"5' GF@ %' !5 ' "2=46?' 3%>=% ' C : C53e' %46' G% 3 % 7 % ' =1745' %7 > % 74 ' 1H%63' E11D' "2=4% ' " %5' %1 46?' C2< %3' "2=145' 463"63' !?F46?' 4 "5HC6@' 1= ' E" 51 ' 5 C"6%5' 47%5' C>. %%' G% 3 % 74 ' (15%>=' "521F' =46 %5' ' 3" 2134H' =1745' 47 :' 4 ?' 1= ' 31 %(

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D ' >H%635' N(' 15"4H%' (;' " 5
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% 6@ 16? H6"4 461 1$ H642=4 " 1$ 3=% 9" :?17% 1$ 6%4 ? @231% (16? C 3" :31F%6 1$W3=% 9" :?17% 1$ 2134 ? E" "47 16?&"3` E" "475 1$ 3=% 9" :?17% 1$ 6%4 ? "2=46? 16? E4 74 1$ 3=% $47% 9" :?17% @? %@ E165 %@ 4"45 1 34:C% =46 %5 %63C% %F"5 E4351 "6 %6% 4 % 4 ? 1H%63 =%6 %@ !5 C"6%5 "6 1:%6 16F"2= 461 %3 "6 C53" "4 5=4"? "6 1:%6 4B% "6 E" "47 &467%6 "6 1>% '4 B%65 "6 1= 1H" 51 "6 1= 1 34 "6 47%5 4 :=47 "6 E" "47 4 :=47 "6 1F4 ? \\ 531] "6 E" "47 E4<%8 "6 E" "47 64B% "6 1= "2<%6" : "6 3 ?6%F 3 1= 5 "6 =1745 47C% "6 "2% C?? 461 %35 !?F46? 1C 34:C% !?F4.? 46H@ E" "47 1 34:C% =6"531>=%6 1C 34:C% E" "47 46H146? % 6@ &467%6 "2=46? 4" 5$16? 1= 46<=C353 G" H%63 '4H% =1745 ?6%F % 6@ !?71 ?5 &64 2"5 3C ?% &64 2"5 64 % "47 E" 716% !?F46? 3643$16? !?F46? 4C ?%65 =1745 6"53 1H@ =4C 2%@ 47C% 6"53 =1745 43%5..@ E" "47 ?475 47C% ?475 1= 6%5F% G%16:% %6<% 6@4 4 51 E4<%6 9"6<=47 1= ; =16 31 E" "47 453" :5 E" "47 43% 1= 4:5=4F E" "47 "5% E" "47 E46 %6 =6"531>=%6 =C35H@ ?6%F 4 3 &64 2"5 16:4 "2=145 3%F46? 4 ? H= E"5%74 !5 C"6%5(=% 4@16 4 ? ?%67% 1$ 163=47>31 $16 3=% 3"7% H%" : 1H%63 B%5 1= 46<% 3=% 4@16 1$ ":=4C $16 3=% 3"7% H%" : 3=% 4@ "$$% 1$ '4B% 36%% $16 (3=% 3"7% H%" : 3=% 4@16 1$ 642< %@ $16 3=% 3"7% H%" : "2=46? C3 %6 !5 4 43="% 1B% ; %6.%4 3 43 4F 1= 6"?:%5 E" "47 =C65H@ 1= 4 =C6@ !?F46? 4?<"..5 1= G% ?1 1= \\ % 21 e] =46 %5 &"3` E" "475 1= 17H%5 "2=46? \\E" 1C:=%@] 1H%63 %5 %6":: % 6@ C5=31 G%6646? G16% 01??46? %7H%631 !?F46? 421 63=C6 611<%5 1H%63 4 5% =1745 &6%%" "4 1= E%%B%6 E" "47 "%1 < %6 46? E4 2133 =1745 %F31 46B%@ !<" 5 !5 C"6%5 1= !<" 5 1$ C5=?% &64 2"5 4 % 461 ? ! %574 =46 %5 67% % 6@(% 51 1H%63 6%31 4 ? =1745 6%31 !5 C"6%5 "6 % .47 3=C653 % 51 1$ 12%53%6 =1745 4 :=47 !5 1= " 61F % %6< 31 3=% 46@ 7% 3 745 1%3=C653; 4 ? E" "47 &%%3F11? 95 C"6%5 '4 "% '4 B%65 ' 316 1$ =@5"2<% (!?F46? 47%5 1$ 1C:931 =1745 &64 2< " 1$ \\!2<1 e] E=335 1$ E1131 !?71 ? 61 "F"2= 1$ '4@% 36%% G% 3 1= G46? %6 1$ \\ 6131 ;] 1H%63 &6C% 1$ 642< %@ 1H%63 4631"Y 1H%63 '167%6 =1745

" <" :31 4 ? % 6@ %B% " :=47 !5 "6%5(

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436"2"C5 "521C 3 =43B163= 1$ 3=% 9" :?17% 1$ 6%4 ? =% 1 1C64H % 2="3% G6%@ !5 C"6% =% 1 1C64H %(63=C6 34 =1>% !5 C"6% "6 2611>% 1F &64 2"5 "%6>1" 3 4 ? E" "47 42=%B%6" !5 C"6%5 "6 =17<5 46<" 5 461$3%3 %3B45% ":133 "2=46? 4 5$"%? =1745 %F"5 E" "47 E" "475 " %65 O=46%Y C32=" 51 4 ? =" "> =%6646? !5 C"6%5 1= 9%6$=F% 4 ? =1745 466%3 G% 3%7% &64 2"5 1$" 1I !5 =1745 163%6 G% 3%74 E" "47 E11=1 5% "6 E" "47 34 =1> 9 ":=3 61C:= 1$ 6"?:%$16? G% 3%74 1= E="3% !5 C"6% =17 =46>% 1$ 64 H@ "5=46? 64?$16? 8] &64 2"5 G6%:16@ G% 3%7% 1H%63 =46H611<% 63=C6 E466% 4 ? =83%"45 =46 31 !5 C"6%5 1= 36%@ G% 3%74 "2=46? 2.>3%6 E" "47 463F6":=3 '\\1$ 1674 31 E" "47 46 % 4 ? E" .47 463F6":=3] 1$ 55" : > !5 C"6%5 4F6% 2% 3C63"B4 3 !?71 ? "2=151 =17 45 6"531F !?71 ? " ? G% 3%7% =46 %5 \\ 34 =1> ;] !5 C"6% "6 1= 1 " %I. 461 %3 E" "47 " 2< %@ '462@ 1 " %I ':H@(K 1= 9 ":=3 "2=46? 4@16 1= H17%@ 4 ? % %3 !5 C"6%5 "5= 1$ @3= !5 C"6% C 531 1$ E1651>> G% 3 &64 2"5 4 ?5 4 ? &64 2"5 36" :%6 5 C"6%5 =1745 '"2<% 51 &64 2"5 =16 =" 4 ? =6"531>=%6 1= 51 G% 3%74 ! @6% >$ 47>31 4 ? 1= $%6<51 !5 C"6%5 E" "47 "7>5 > 4 ? % 6@ 4 $5=%4? G% 3%7% =% 4@ "$$%5 1$ %3$16? $16 3=% 3"7% H%" : =1745 =46>% E" "47 \E=4631 4 ? E46? 1$ %3$16? G% 3%7% E" "47 4 % 1$ %3$16? !5 C"6% !?F46? 1" =F13= 4 ? 1= %@ %6 !5 C"6%5 C:= \ C3 %3;K] G% 3 !?F46? =" %@ !5 C"6% 1= 46<%6 1$ 467H@ 1 3=% 1>6% 16?"4 31635 1$ 1C ? " 3=% 46"5= 1$ C331 4 ? "2=46? 61 1F G? 3%7% "2=46? 4 ?5 G% 3 %2%"B%6 G% %64 " 3=% 4@16 1$ %F;46<% $16 3=% 3"7% H%" : 3=% 5"I 5% "16 ?%67% ' 1 16 46H61C:= =1745 E="3% % 6@ E4 3%65 E" / 31F 4 ? E" "47 (4@ G% 3%7% (

&16 (K3=% 1F % 4 ? 1C 3@1$ 3=% 1F % 1$ 133" :=47(

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"6 1H%63 421 "6 % 6@ \ 1H%63 K] "6 1= E11?=1C5% "6 1= 16?4 3 "6 1H%63 '6C6@ "6 "2=145 %' 364 :% "6 1= 1 4 ? "6 C:C53" % 4:64B% "6 H= %33C5 "6 =1745 46% "6 1H%63; 9%7>> "6(421H 53 %@ "6 1:%6 1335 "6 =1745 E46? "6&64>2"5 \ C2<%@ J] "6 E" "47 11<% "6 !?71 ? '1@ %@ "6

53 N(461 %335 N(" 21 N(E" 1 :=H@ N(
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7 ' # (' N ' $ 9 & 9 (+ , 2

=1745 ?475' "6 %3%$' G%4 ' .6 =1 "45' G%6646?' 4 ?' "6 "2=46?' '%:6%=47' 461 %35' "6 %B"%' 43%" %' "6 &64 2"5 \ GC@>]]' .6 E" "47' 94 3' "6 1= ' C6 %6' "6 !?F46?' =%5 4 ' 4 ?' "6 %2"]' E"2=' 9 ":=35' "6 =6"531>=%6 \ 43=16>%; ' 9 ":=3' 1$ 3=%' 43=' 1= ' =46>%' '%4 % 1$' 16F"2=' =1745' 9 "B%33' 1H%63' \E4>11 %]' 1H%63;' C2<" ' 1= ' 4$H16?' !?71 ?' E11?=1C5%' 1= ' 9 "B%33' 1H%63' 1C:=31 ' % 6@' IHC6:=' 47%5 153' &64 2"5 6%716' 1H%63' E46?% ' %%' E46 %6 4 ?' \ %66@]' &"%<%' !5 C"6%5' 1= ' %6 %' 1= ' 1C:=31 ' 1= ' 4@%' 1H%63' 1 %@G4H3.% 661":%6' "2=46?' E@3=' &64 2"5 G46? %6' 1= ' E11?=1C5%(' E" "47' E" ?=47' &64 2"5 E. ?=47' 1$' 617%6' =46%5' %:6155%' !?F46?' 147%' 1= ' 166"5' 1C 2% 16' 43(' 4F' "1745' "%651 ' '4 "% ' %?" :$"%? %216?%3' 1$' @ ' =6"531>=%6' 61F' 1H%63' E"51 ' !?F46?' E"51>' =46" ' C6 %6 ' 1$' " $16?' !6457C5' !!"6% 1745' 61F %' &64 2"5 \ 1>>5]' =46%5' E6":=3' "2=%5(' 61F %' !?F46?' %?%W "6@' %:C5' =1745' 421 ' 43=4 "% ' "71 ?5' =1>"45' 13=%631 ' !?71 ?' \ $$"$%;]' G%16:%' ! :4 ' !?71 ?' 47H%' 4331 ' %6>%65' 1H%63' '4@' 1= ' ' 1= ' %>>5' 1H%63K' '4B@' =1745' E6":=3' C:=' 1B% ' H64=47' 453%' % 6@' 45=47' 14<"7' 43=%F5' E" "47' ?$"%?' %7%3' \ 16 %]' =1/(1F 5=% D' 1$' 16F"2=' 1= ' \ =C6531 e]' 1= ' 1>%@' 5442' 6%531 ' =1745' C %6' 4>=' 46%' 6":' &1C 3F %' E" "47' 64 3=F4"3%' 1H%63' 64 5H@' =" ">' %?" :$"%?' % 6@' %B% " :=47' &64 2"5 %:C5' "2=46?' 463%6' 1= ' 6%453%6' 4%3" %' %' 47%5' 153' .C "16' 4 3' 1$' @% B%631 ' ' '1CH@' 1$' 4 F163=' C:C53" %' 6":':5' 47C%' &C %6' 1H%63' 1 ?1 ' "B%6' %%B% K =1 "45 G4F?@' "2=1 45' 11<%F11?' 1= ' :C"5=' 1 <$16?' \ >% 74 ;]' %1 /(\ 1>15 K]' &64 2"5' =C65H@' "5H@' KGC@H1 ' G%16:%' 1F 5=% ?' G4521@ %' E%?' 3=1 @' &6%%531 ' =16445 4 H13' 1= ' %' 364 :%' =1745' "2=71 ?' E" "47' 46<%6' !?F46?' 5H1 $2' % 6@' 4@ %5' 1H%63' C2<" ' .C "16' G46?" %6' % "3' 1= ' 4 % ' 1= ' "2=71 ?' 1= (' " :4@(=1745' Ee$?' 1H%63' CI31 ' E" "47' "?%@' 564%" 1 :' 1=." G46 "5=' =1745' 1F$"%?' !?F46?' %' 364" :% 4>=' "%651 ' 1H%63' % " :5 \ 3" %74 K()' 47%5 43=16>%' &64 2"5 'C%5:43%' '1?316' %>>%6 1= ' 4:%' E" "47' E" "4751 ' % .47" ' ! :4 ?' "2=46?' &%66"%6' 1= ' E11?=1C5%' C2@' 42<" :' 1= ' 453%' 61:64B%' 1$' =16>4 ?' =1745' 6"2<' E" "47' C?" ' % 6@' 6"2%' !?71 ?' %4%5' =1745' 7"3=(

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G%16:% !B4335 =" "> &1653%6 1= 4F " : E4 3%6 1F=>? =46 %5 =163%6 4 >= 1F E H65 e %53%6 %3%6
\ '% 463 1@X !5 C"6%5 E" "47 43%74 G%16:% %::13 E" "47 G"HH5 =1745 432=%3 1 4?4H 4 47 E" "47 %2<
&64 2"5 s1C =K 43=%F %"62% % 6@ 4F<5 =1745 9% 3 E" "47 =%$ 12<% 3=1 @ 4F " :5(4 ? =46 %5
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63=>6 16? "521C 3 6F" K1$ 3=% 9" :?17% 1$ 213 4 ? "6 1= % =47 "6 %2" "5=1> "6 % 6@
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<=46? ="6 %@ "6 =1745 ' @<% 461 %35 "6 E" "47 16 %@ 9 ":=3 1$ 3=% K 43= "6 "3592=145 % =47 "6
47%5 631 "6 =6"531>=%6 1 @%65 "6 1= 6"521% "6 !? $46? % F" 9 ":=35 =1745 % =47 =1745
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4 =2 =1745 4@ 1H%63 "32=% =1745 $%F343 % 6@ >5 %@ 1:%6 =8Y@5F% K =46 %5 G16%" : E" "47
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1CH % 5% "16 47%5 C3 %6 "713=@ C66% &%6?="4 ?1 4 <=C653 43=4 "% 4 7%6 %I4 ?%6 34> %5 >3=1 @
&1F %(1= >% %6 1= 4@% 47%5 \ 46B"5B 1= &C %6 !?F46? 4@ %.C "16 1= =4 1 %6 1= %F =47
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=1745 235F163= =1745 6":: 5 '>_31K6 1$?F "B%6 E%%<%5 E" "47 1C : =1745 "?%3> % 6@ 11>%
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=46 %5‘ !46%‘ 1$‘ E" 35="6%‘ 1 % 4?‘ X6%‘ 4>>46% 3‘ 1$‘ 3=%‘ 46 C%55%‘ 1$‘ E" 2=%53%6‘ !?F46?‘ "521C 3‘ 16""0C6@‘ 1 %4?‘ %"6%‘ 4>>46% 3‘ 31‘ 6@‘ !46%‘ $‘ 46% ?1 ‘ 3.1 @‘ 16?‘ 5=%@‘ 1 %4?‘ %6%‘ 4>>46% 3‘ 31‘ 3=1 @‘ !46%‘ 1$‘ =4$35HC3@‘ 1C 34:=%‘ 16?‘ 166"5‘ %4?‘ %"6%‘ 4>>46% 3‘ 31‘ (‘ !46%‘ 1$‘ H" :31‘ 1@%‘ "521C 3@‘ =4 1 ‘ 1$‘ 3=%‘ 9" :$17%‘ 1$‘ 6%4?‘ %‘ 6@‘ 16?‘ 164" %‘ 1$‘ 3=%‘ 9"""":?17%‘ 1$‘ 6%4?‘ 3=%‘ 1 1C64H(% %6%:6" %(%63"%‘ !5 ‘ "6‘ 1= ‘ !6C %‘ !":=3‘ =4 2% 16‘ 1$‘ 3=%‘ !I2=% C%6‘ "6‘ !?F46?‘ %@71C6‘ "6‘ E43%6‘ 3‘ 1= ‘ "6‘ 1= ‘ C331 ‘ "6‘ "2=46?‘ G6CH=47‘ 1F‘ "6‘ &64 2"5‘ "%‘ "6‘ E" "47‘ "2%‘ 3‘ "6‘ E43%6‘ 1 :‘ "6‘ 47%5‘ 1 :‘ 461 %35(‘ "6‘ !?F46?‘ C :%6$16?‘ "6‘ 1= ‘ "2=145‘ 9 ":=34‘ 1$‘ 3=%‘ 43=‘ "6‘ G%16:%‘ C :%6$16?‘ "6‘ =1(7457>%551 ‘ "6‘ 3%>=% ‘ &1Q‘ "6‘ =1745‘ !5321C63‘ "6‘ % 6@‘ 1<%6‘ "6‘ \ 4%=%Fe]‘ ?6%F5‘ "6‘ !"4H‘ 46B%@‘ "6‘ =46%5‘ 4F %@‘ "6‘ !?71?‘ E57$16?‘ "6‘ 1. ‘ 1 " 5‘ "6‘ "2=46?‘ 463‘ "6‘ G%16:%‘ E" $1C:=H@‘ 9 ":=35‘ !B%" ‘ "%6>1" 3‘ 1@%‘ !64 2" ‘ 4E%3‘ G%16:%‘ 933‘ "2=46?‘ %F$%‘ 1H%63‘ @?%‘ &64 2"5‘ E61C:=$1 ‘ 5%‘ "16‘ 1= 4 ‘ "2=46?‘ 1F‘ =1745\ 1H@X]‘ G" %5‘ !@6% 8X;‘ ‘ 6@‘ 6C <%6‘ @1 "% ‘ 'C2<%3‘ =1745‘ &6%4<%‘ =1745‘ % %3‘ !?F46?‘ "2=145‘ $‘ 4 " :$16?‘ =1745‘ .33(E" "47‘ 5=‘ %I4?%6‘ ="53%F4"3%‘ 4C6"2%‘ 12<=?‘ =1(7457H%63‘ % $@‘ 4@ 31 ‘ &64 2"5‘ 16%@‘ % 6@‘ ‘ 1=4‘ =46 %5‘ &1I‘ 1= ‘ E" ?=47‘ !?F46?‘ "2=145‘ 1$(‘ G47" 5‘ E43%6‘ !6 "%‘ 1= ‘ 7"3=‘ 1$‘ "?F163=‘ 1= ‘ '%4 %‘ !?F46?‘ "2=145‘ 1$‘ E" 3%6H16 %(R&64 2"5‘ G1??46?‘ &64 2"5‘ 31 %=1C5%‘ E" "47‘ 6%332=46?‘ 4F6% 2%‘ F4 31 ‘ =1745‘ 46B4"5%(‘ % 6@‘ 46<%‘ =1745‘ =47H%6"4" %‘ 1=

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47H%63 1= 46B" E" "47 =4$$" E" "4;7 E" 1C:=H@ E". / 46H17%(&64 2"5 " %@71C6
"2=46?' %B" E" "47 G%16:% =46 %5 4@71 ?' =46 %5 C2<%6 % .47" G"$$16?' 1= &"3`=%6H%63 !?71 ?'
C :%6$16?' 1= R % %3 G4H6"% "' 5= %@ E" "47 %4653 !?F46?'(%4653 1= E4 "5 "2=46?' ?F163=' %6H%63
4$"?" % "2=46?' 9% 3 E" "47 6%F%6 1= " %6 !5 C"6%5 %B" 4524" % E" "47 4:%6 =46 %5 16<%'
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1= G4 f%3 1= ":: &64 2"5 F4 31 E" "47 G6"4$"% ?' =46 %5 "32=% =1745 13 E" "47 \ 12<%;]' % 6@
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="53 %3=F4"3% E" "47 %42=' 1$ &"? %31 ?6%F' 'C<%' =46 %5 3%C463 E43%6 1 :' 1$ \ 45% ,;' 1H%63 E4?74
47C% 61374 1= %= %3 1$ 43=16>% !5 C"6%5 1= 17>%551 E" "47 C%5 =1745 1F% b"3=4 "% '
61374 E" "47 G4 3%3 "2=145 ! @c3 =6"531>=%6 G46? %6 "2=46?' " "$6% 1= 611<% =1745 '% %3
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C31:11?' % 6@(;' E=4374 1= %5 % 1H%63 "55% !?F46?' %?%213 =1745 C 3 1$! $46?' 6@4 4B.1(F'
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1H%63 4F6% 2% 3=% 4@16 1$ 4 "5HC6@ $16 3=% 3"7% H%" :' 3=% 4@16 1$ E"31 $16 3=% 3"7% H%" :' 3=% 4@16
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1= \ 6"43" @.' ?6% F \ 6 F?%]' 1:?6 45<%3 47%5 466"5 4 ? =46 %@ " %$ G% 3%7% "2=46?' " "$@
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"6 G%16:% & %32=%6 "6 H=" 1F3=%6 1$ E="3%=4B% 461 %35 "6 1= 3F4@ "6 '4 "% & % "7:' "6 =6"531>=%6
=" ">51 '9 ":=35 =" ">' 5:64B% "2=46?' 1F3=%6 1= >4531 % % "% :=47 =1745 ! 31 ?F46?'
E"51 E" "47 4 ?$16?' E" "47 & %7" :' % 6@ E"51 =1745 & %32=%6 =6"531>=%6 '4531 "2=46?' 643=F4"3%'
1:%6 116% &?F46?' C5:64B% C:=' \ 42=% ']' 1= &"?"%6 1= =" ">51 '!?F46?' E"51 !5 C"6%5 "2=46?'
642< 3= 6>' 1= %@"51 !>=64U 4=? .6?' =1745 G1?54B%(">6"4 "31 63=C6 24.$% "2=46?' "?46
3=1 @ g4C =1745(=%>>46?' '4 "% & %7" :' "%5 =" ">51 1= 61C:=47 G%16:% E"51 =1745
%H= %3=F4"3% 47%5 "7>1 E" "47 "6<=%4?' 47%5 "6?' %:" 4?' '1H51 G% 3%7% =% $@16% 1$; %H@'
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9 ":=3 4?' 461 %3 "6 E" "47 E" "475 461 %3 "6 E" "47 E" "475 9 ":=3 4?' 461 %3 "2=145 4: %'
F(% 1C?' E" "47 %"6"2<% 1= G615% 1?' &64 2"5 C<%@ 1= F% 1= G6"$$"3= 1 " :5H@ E" "475
F% C:=%5 % 6@ 1 %5 E" "47 C<%@ C:=' E@ % !5 1:%6 C:=%5 1F4?' E@ % =1745 E" "475
166"2% %F"5 &64>2"5 1@?' 1H%63 466@ C:=' E" "475 '4B"?' E" "475 !5 C"6%5 1= 6"2% =1745 153" '
E" "47 G6"$$"3= 1= " 1= C:=%5 "2=46?' C:=%5 "2=46?' !?F46?5 7H615% %F"5 !?F46?' %F"5 E" "47'
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$ "46%5 &16?' 46 C%55% 1$ E162%53%6 1 % 4?' %"6% 4>>46% 3 31 % 6@ 'C<%(1$ %4C$163 1= G7"3%6 !5
":=' =%6"$$% "6(!?F46?' E" "475 461 %3 "6 1F4?' GF@ ! ":=3(' C5=@(4 5% =1745 16:4 1=
#5=HC6==47; 1= %$$6%@5 1= %F"5 1$ 1%?716% "2=4@? E" "475 %$$%6@ %$$%6@5 =46 %5 16:4 !?F46?'
1 %5 =1745 E4<%6 '4 "% E" "475 E43%6 4C:=4 !?F46?' G47%5 1= E" "475 1= 16:4 4674?C<%
GE@4 4674?C<% 1@?' !?F46?' %F"5 =" ">' 466@ =46 %5 1@?' ?B"5 1 %5 47%5 466@ "2=46?'M %$$%6"5
1= 3"?74 &64 2"5 1@?' 1= E4H%1$$% E43%6 E" "475 1H%63 C2@ E" "47 1F%65 1= GF@ %' 1=
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An Act for establishing the Coronation Oath.

3 Whereas by the Lawe and Ancient Usage of this Realme the Kings and Queenes thereof have taken a Solemne Oath upon the Evangelists at their respective Coronations to maintaine the Statutes Lawes and Customs of the said Realme and all the People and Inhabitants thereof in their Spirituall and Temporall Rights and Properties But forasmuch as the Oath it selfe so on such occasion administred hath heretofore been framed in doubtfull words and expressions with relation to Ancient Lawes and Constitutions at this time unknowne To the end therefore that one uniforme Oath may be in all times to come taken by the Kings and Queenes of this Realme and to them respectively administred at the times of their and every of their Coronation May it please your Majesties that it may be Enacted and Be it Enacted by the King and Queenes most Excellent Majesties by and with the Advice and Consent of the Lords Spirituall and Temporall and the Commons in this present Parliament assembled and by the Authority of the same That the Oath herein mentioned and hereafter expressed shall and may be administred to their most Excellent Majesties King William and Queene Mary Soveraigne Lord & Lady present at the time of their Coronation in the presence of all persons that shall be then and there present at the Solemnizeing thereof by the Archbishop of Canterbury or the Archbishop of Yorke or either of them or any other Bishop of this Realme whome the Kings Majesty shall thereunto appoint and who shall be hereby thereunto respectively authorized which Oath followeth and shall be administred in this manner that is to say. The Archbishop or Bishop shall say. Will you Solemnely promise and sweare to governe the People of this Kingdome of England and the Dominions thereto belonging according to the Statutes in Parliament agreed on and the Lawes and Customs of the same? The King and Queene shall say, I Solemnly promise soe to doe. Archbishop or Bishop. Will you to your power cause Law and Justice in mercy to be executed in all your Judgements. King and Queene, I will. Archbishop or Bishop. Will you to the utmost of your power maintaine the Lawes of God the true profession of the Gospell and the Protestant Reformed Religion established by Law? And will you preserve unto the Bishops and Clergy of this Realme and to the Churches committed to their charge all such rights and priviledges as by Law doe or shall appertaine unto them or any of them. King and Queene. All this I promise to doe. After this the King and Queene Laying his and her hands upon the

holy Gospells; shall say. King and Queene, the things which I have here before promised I will performe and keepe. So helpe me God. Then the King and Queene shall kisse the Booke. And Bee it further Enacted that the said Oath. shall be in like manner administred to every King or Queene who. shall succeede to the Imperiall Crowne of this Realme at their respective Coronations by one of the Archbishops or Bishops of this Realme of England for the time being to be thereunto appointed by suth King or Queene respectively and in the presence of all persons that shall be attending assisting or otherwise present at suth their respective Coronations Any Law Statute or usage to the contrary notwithstanding.

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² ◦ ·H%% "3 $CG3=%6 i 4?%?4 ?4 ? 6?4" %? I5' 3=% C3H16"3"% 4$16%54"? =43 %B%6@ %62=4 3 364 :%6 4 ? %F' 6%5"?7 ;' F"3=" ' 3="5 9" :?17% 5=4 ' >4@ 3=% C3 7% 1$ % ' >1C ?5(=46"3@ %33%65 43% 35 $%6' 3=%"6 % "%$% 5=4 ' 3=43 =43=' 6%2%"B%? 4 @ =46% 1$ 3=% CH "2<% =46"3@ 21 %? ?% H@ B%63C% 1$' %33%65 43% 35 $%6' 3=%"6 % "%$% 5=4 ' H%' 2=46:%? F"3=' 3="5 54"? C7 7% 1$ % ' >1C ?5((' 2 ◦ ·H%% "3 $CG3=%6 i 4?%?4 ?4 ? 6?4" %? I5' 3=% C3H16"3"% 4$16%54"? =43 %B%6@ %62=4 3 364 :%6 4 ? %F' 6%5"?7 ;' F"3=" ' 3="5 9" :?17% 5=4 ' >4@ 3=%

(' 7% 3"1 %?' ? 1>% @ ?%2 46% 3=% $$%$3' 1$' 3=% f =46:%' C 31' 3$"%7' 4 ?' =1F(4 ?" ' F=43' 74 %6' 3=%@' 1C:=3'
4 ?' 5=1C ?' 74<% 3=%"6' %63"$"243%5' 42216?" :' 31' 3=% 43%5' 4$16%5 ?' 4 ?' 5=4 ' 3=% ' 4 ?' 3=%6%' >6%$"I' 4 13=%6' '4@'
$>' 3=%' 54"?' %651 5' 31' 4>>%46% H%$16% 3=%' 54"?' 177"55"1 %65' 4 ?' H6" :' " ' 3=%"6' %63"$"243%5' 1$'3=%' 47%5' 46"?'
6" 47%5' OC4"3"%5' '%:6%%5' 4 ?' "3%5' 1$' 4 ' 4 ?(%B%6@' 3=%' %651 5' ?F%" :' 16' 6%5"?%" :'KF"3="' 3=%' "7"335 1$'
3=15% 42%5' BE3=' F="2=R 3=%@' =4 ' =% .=43:%5?'4 ?' 1$' 3=%' CH534 2%5' 4 ?' 4 C%5' 1$' %B%6@' 1$' 3=%7'(" ' 1 %@5'
'%H35' C4#' %%5' 4 46"%5' %6 C"53 '(E4:%5' 61$$"35'!71C7% 35' 4 ?' 13=%6' 3=" :5'(2=46:4H%' H@'3="5' _H31:%3=%6'
F"3=' 3=% 5 7% 3' 1$' 3=%(6%5>%lo "B%' 43%5' 3=%6%H@' 7>15%?' 1 ' %42=' M>%63"2C 46' %651 ' 42216?" :' 31 ' 3=% C %5'
4 ?' '"6%$=1 5'3=%6%1$' F"3=1C3' 8 1 2%4 7% 3' 1B%' &4B1C6' '6%4?' 16' 4 "2%' C>1 ' >4" % 1$' &16$%"3C6%' 1$' 4 @' C77%'
13' %I2%%?" :'(&"B%' >1C ?5' 31' H%' %B@%?' 45' H@' 3="5 23' .5' 4>>1" 3%?' 4 ?' 5=4 ' 4 51%(3=% ' 6%3C6 %' 3=%' 47%5' 1$'
3F>' 716%' 4H%' 31?' 5C$""%"% 3 ' %651 5' F"3=" ' 3=%' 1C ?5' 4 ?' "7"335' 1$' 3=15% 46"5=%5' 16' 42%5' F=%6%' 3=%@'
5=4 ' H%' 2=46:%4H%' 6%5$"%$3"B%@' 45' 4$16%54"?' 31(H% 1 %$3165' 1$' 3=%' 1 %@' ?C%' 31' 3=%"B' 4.%53"%5' H@' 3="5' $3' $16'
F=H5%' >4@" :' C 31' 3=% %2%"B% ' O%$3% 4 ' 31 =% 4>>1" 3%?' H@' 3=%"6' 4.%53"%5' 3=%"6' ' %>C3@' 16' ' %>C3"%5'" ' 74 %6'
$1 1F" :' 5 2=' 1 %@5' 45' 3=%@' 5=:' H%' 2=46:%?' F==4 ' 3=% 46"5=' 16' 42%' H@' F=17%' 3=%@' 46%' 51%' !7>1@%?'
5=4 ' H%' 4 5F%64H%(F="2=(%63"$"243%5' 4 ?' 55%57%' 35' 5=4 ' H%' 452%634" %?' 4 ?' 6%3C6 %?' " ' 31' 3=%' 177"55"1 %65'
43' 16' H%$16% 3=%(F% 3@%3=' '4@' 1$' C % %' 3=1C54 ?' 5"I' =C ?6%?' %':=3@' " % %I3' 217%" :' ?' C>1 ' 3=%
'%"B%6@' 31?' %3C6 " :' " ' 1$' 5C2=' %63"$"243%5' 16' 55%557%' 35' C 31' 3=%' 54"?' 177"55"1 %65' 3=%@' 16' 4 @' F1' 1'W
716%' 1$' 3=%7' 5=4 ' $163=F"3=' "55C% 1C3' 4 ?' ?%"B%6' 3=%"6' E4664 35' 16' !536%435' 31' 5C2=' 1 %$3165' 45('4$16%54"?' $16'
(3=% 5>%%?@' 1 %$3">:' 4 ?' %B@" :' 1$' 3=%' 54"?' 55%57%' 35' 4 ?' 4 ' 1 %@5' 4 ?' 43%5' ?C%' 3=%6%C>1 ' 422>6?" :' 31'
3=%' "C3313' 31?' 5CH5% >% 3' '"6%$3"1 5' ,' 3="5' >6%5% 3' $3' $' 4 ' F="2=' 3=%' 54"?' 1 %$3165' 46%' =%6%H@' 6% C"6%?' 31'
74<%' '%74 ?' 1$' 3=% 463"%5' 3=%75%B%5' 16' 43' 3=% 42%5' 1$' 3=%"6' 453' 4H1?%' F"3=" ' "I' ?4@%5' 4$3%6' 3=%' 6%2%">3' 1$'
5C2=' E4664 35' 1$' !536%435' 46"?' 31 %B@' 4 ?' 4@' 7(3=%' 547%' 1 ' 16' H%$16%' 3=%' F% 3@%3=' ?4@' 1$' C@' >'
K3=1C54 ?' 5"I' =C ?6%?' %':=3@' " % 43' 5C2=' 42%' 45' 3=% 177"55"1 %65' 5=4 ' 4>>1" 3 'C 31' 3=% 6%5>%$3"B% %2%"B%6'
G% %64 '" ="5' '%>C3@' 16' '%>C3@% ' F=1' 46% =%6%H@' 7>1F%6%?' 4 ?' % C"6%?' 31' 24 ' C>1 ' 4 ?' =453% ' 3=% ' 1 %$3165'
31' 3=%' 54"?' 4@7%' 3' ?' 4$3%6' 3=%' 54"?' F% 3"%3=' ?4@' 1$' C@' 31' %B@' H@' E4664 3' C ?%6' 3=%' 4 ?5' 4 ?' %4 %5'
1$' 31@' E1' 16' 716%' 1$' 3=% 177"55"1 %65' =>1 ' 3=% > %$316' H@' '"536%55' 5C2=' C77%' 4 ?' C77%5' 1$'
1 %@' 45' =% =43=' 6%2%"B%?' 4 ?' 45' 1C:=3' H@' ="7' 3e' =4B% H%% % >4"?' 4 ?' "5 13' >4"?' H@' 6%451 ' 1$' ="5' $4" C6%" ' '
?1%" :' $-' 'C3@' 42216?" :' 31' 3=%(' "6%$3"1 '1$' 3="5' $3(' ;'

2 o' H%%' "3' ! 4$3%?' =43' 4' 36C%' 'C>"243%' 1$' 3=%' F=1%' C77%' 2=46:%?' F"3=" ' %B%6@' C ?6%?' 43=' E4>%' 34<%'
46"5=' E46?' 16' 42%' 43%?' 4 ?' 55%55%?" ' >C65C4 2%' 1$' 3="5' $3(' F"3=1C3' 47%" :' 3=%' %651 5' 5=4 ' C ?%6' 3=%'
4 ?5' 4 ?' %4 %5' 1$' F1' 16' 7:6%' 1$' 3=% 177"55"1 %65' 3=%6%C 31' 4>>1" 3%?' H%' 6%3C6 %?' "" 31(=%"6' 4.%53"%5'
!I2=% C%6' H%$16%' 3=% B""% 3@%3=' '4@' 1$' C:C53' F="2=' 5=4 ' H%' " ' 3=% %46%' 1$' 1C6' 16?' %' 3=1C54 ?' 5"I'
=C ?6%?' %':=3@' " % 84 ' >>%4 %5' H%" :' $"653' ?%3%67" %?' ?' 3=43' "<%' 'C>"243%5' H%' 451%" ' 21 B% "% 3' 3"7%
74?%' 1 3' 4 ?' ?% "B%6%?'C 31' 3=% %2%"B%65' G% %64 '" 51%' 45' %B%6@' 1$' 3=%7' 74@' H%' ?C%@' 2=46:%?' 31' 4 5F%6%' 3=%"6'
6%5>%$3"B% 1 %?"1 5' 4 ?(%2%">35 ' 4 ?' 3=43' 3=% 1 %@' 3=%6%C>1 ' ?C% H%;' >4"?' " 31' %"6' 4.%53@%5' !I2=% C%6'
H%$16%' 3=% F% 3@%3=' ?4@' 1$' %>3%7H%6' F="2=' 5=4 ' H%' " ' 3=% %46%' 1$' 1C6' 16?' % 3=1C54 ?' 5"I' =C ?6%?'
%":=3@' " % 31?' C>1 %3C6 %' 1$' \4 @ ' 5C2=' %63"$"243%' 3=%' 54"?' 177"55"1 %65' 6 4 @' =6%%' 16' 716%' 1$' 3=%7'
5=4 ' 31?' 74@(' "$' 3=%@' 5%%(' 4C5%' !I47" % 3=% 6%5% 3%65' 3=%6%1$' ?' "$' 3=%' 54"?' 177"55"1 %65' 1 ' 4 @' =6%%' 16 '
716%' 1$' 3=%7' F"3=" ' 3=%' 5%B%64 # "7"335' 5=4 ' 43' 3=%' 3"7%' 1$' 3=%' ?% "B%6@' 1$' 3=% %63"$"243%5' 16' "I' ?4@%5' 4$3%6'
=4B%' 2>64" % < 1F%?:%' 16' B%=%7% 3@' 5C5>%$3' 3=43' 4 @' >%651 ' 16' >%651 5' F=1' 1C:=3' 31' H%' 7% 3"1 %?" " ' 3=%'
54"?' %63"$"243%5' "5' 16' 46%' 177"33%?' 16' 3=43' 4 @' >%651 ' 16' >%651 5' " ' 3=%' 54"?' %63"$"243%' 7% 3"1 %?' "5' 16' 46%' 1$' 4'
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1$' 3=%7' 5=4 ' =4B%' .>1F%6' 31' F46 %' 5C2=' >%651 ' 16' >%651 5' 31' 4>>%46%' H%$16%' 3=%7' 43' 4' '4@' 4 ?' 42%' >6%$"I%?' '
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3=43‘ 4 @‘ >%651 ‘ "5 16 "5‘ 5C5>%$3%?‘ 31‘ H% 4‘ 4>"53‘ 31‘ 3% ?%6‘ 4 ?‘ 3=%@‘ 46% =%6%H@‘ 4C3=16"`%?‘ 4 ?‘ 6% C"6%?‘ $163=F"3=‘ .1 46(‘ $(‘ 31‘ (
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> 42% 1$' 4H1?%' 1$' %B%6@' >%651 ' E=1' H%" :' 6% C"6%?' 5=4 ' 6%$C5%' 16' %: %$3' 31' 74<% 6%>%43% 4 ?' 5CH52" H% 3=% ' 54"?' ' %2 4643"1 ' 16' 31' 4>>%46% H%$16% 3=% 7' $16' 3=% 74<%" :' 6%>%43" :' 4 ?' 5CH526"H" :' 3=%' 54"?' ' %2 4643"1 ' 5' 4 51% 1$' %B%6@' >%651 ' F=1' 5=4 ' 74<% 6%>%43% 4 ?' 5CH526"H% 3=% 54"?' ' %2 4643"1 ' 43' 3=% %I3' G% %64 '" 0C463%6' %55"1 5' 31' H% =1 ?% ' $16' 3=% ="6%' "?$%" :' ' "B"5"1 ' 16' "H%63@' $16' F="2=' 3=%@' 5=4 ' H%' C53"2%5' 1$' 3=% %42% 31' H%' 3=%6% 6%216?%?' H@' $=%' G"%6<%' 1$' 3=% %42% 16' 1.6"'% %6<%' 4 ?' <%>3' 471 :53' 3=% %216?5' 1$' 3=% 54"?' %55"1 5

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2 o' $16' 3=% H%33%6' 5%2C6%" :'(3=%"6' 4.%53@%5' %651 5' 4 ?' G1B%6 7% 3' %%' "3' $C63=%6' % 4?3%?' 4 ?' ?%2 46%?' =43(' 1%(4>"53' ?6' 6%>C3%?' 4>"53' 51%' 6%$C5%" :' 16' 74<%" :' ?%$4C 3' 45' 4$16%54"?' 5=4 ' 16' 74@' =4B%' 16' <%%>%" " ' ="5 1C5%' 16' % 5%F=%6%' 16' " ' 3=% 155%55"1 ' 1$' 4 @' 13=%6' >%651 ' 31' ="5 C5%' 16' 43' ="5 ?"5>15"3"1 ' 4 @' 675' E%4>1 5 GC >1F?%6' 16' 77C "3"1 ' 813=%6' 3=% ' 5C2=' %2%5546@' E%4>1 5' 45' 5=4 ' H%' 4 1F%?' 31' ="7' H@' 6?%6' 1$' 3=%

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1 7 6$ 55"1 %65' 5 4 ' 24C5%5' 36 , H>@' 16' ! I 364$ ' 1$' 3=%' B=> % "3 7 7$%5 (55%55%?' . 7 ?' =46 : %?' F"3==B' %B%6@' =C ?6%?' 43=' E4>% 34<%' 46"5= E46?' 16' 2%' 43%?' 16' ' 553%5%?' " ' > C65C4 2%1$' 3="5' U' 4 ?' 1$' 3=%' F=1 % C 7 5 7 %5' 43%?' X6' 55%55%?' C>1 ' %.6 1 43' ! 5343%5' $$"2%5' 16("> 1@ 7 % 35' 31' ; H%' %63"$@%?' 4 ?' 64 5 7 "33%?' " 31' K =%"6' 4.%53@%5' 1C63' 1$' ! I 2=% C%6' C ?%6' 3=%' 4 ?5' 4 ?' %4 %5' 1$' 4 @' 3F1' 16' 7 16%' 1$' 3=%' 1 7 7 "55"1 %65' =C ' F"3=1C3' 4 7%" :' %651 5' " ' 53"2=' 3=%"6' %6 $"24 5' ?' (3="5' 3=%' 543?' 1 7 7 "55"1=%$5' 5=4 ' 24C5%' 31' H%' ?1 % C>1 ' 16' H%$16%' 3=%' F% 3@' $"$3=' . 4@ 1$' 1@%7 H ' 3=% ' %I3' % 5C6" :' 16' F"3=" ' ="63@' ?4@%5' 4$3%6' 4 ' >>%4 %5' 31' 3=%7' "=48 @ H%" :' $"653' ?%3%6 7 " %?' ?' 3=%' 9" : 5' % 7 % 7 H64 2%6' " ' 3=%' ! I 2=% C%6' $16' 3=%' 3" 7 % H%" :' 5=4 ' 4 ?' "5 =%6%H@' 6% C"6%?' E"3="' 6%%' 7 1 3=5 4$3%6' 3=%' ' C> "243%5' 1$' 3=%' 453' 4@7 % 3' 5=4 ' H%' 61 7 (4 ?' $16' %B%6@' 6%5>%$3"B% 1C 3@' "?6" :' "3@' 4 ?' 1F % 4 ?' %B%6@' C ?6%?' E4>% 34<%' 46"5=' "B"5"1 ' 1F % 4 ?' 42% 3=%6%" ' " ' 4' 11<%' $' 462= 7 % 3' " ' >=4H%3"24 ' 6?%6' 4 ?' " ' 4' $4"6%' %>="%' 4 ?' F6"3%" :' 4 ?' F"3=" ' =6%%' 7 1 3=5' 4$3%6' 3=%' : 4 7 % 34 ' H%' 51%' H@' ="3 :' %2%"B%?' 5=4 ' .4 5" "33' 4 ' 4 ?' %B%6@' 3=%' 54 7 % 2=%?C %5' 4 ?' ' C> "243%5' 31' 3=%' $$"2%' 1$' % E6"3%6' 1$' 3=%' 4 "%5' 2133" 7 1 @ 24 %?' 3=%' C?"3165' 1$' 3=%' %2%">3;' 1$' 3=%' ' ! I 2=% C%6 ' F=1' "5 =%6%H@' "<%F"5%' 4C3=16"`%?' 4 ?' % C"6%?' 3=' ! 3%6' 3=%' 54 7 %' " ' 3=%' "<%' >=4H%3"24 ' 6?%6' " ' 4 13=%6' 11<%' 1$' 462= 7 % 3' $4"6%@' F6"33% (31' H%' >61B"?%?' $16' 3=43' >C6>15%' (

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2 o' H%%' "3' $C63=%6' % 4?3%?' H@' 3=%' 3=16"3"%' 4$16%54"?' =43' 3=%' 1 7 7 "55"1 %65' 16' 4 @' 3F1' 16' 7 16%' 1$' 3=% 7' 5=4 ' "m5C% 1C3' 3=%"6' E4664 35' 16' ! 536%435' 31' 3=%' CH21 %? 16 ' C ?%6' 3=%"6' 4 ?5' 4 ?' %4 %5' 3=%6%H@' 6% C"6%" :' 3=% 7' 31' %B@' 4 ?' 1 %$3' 4 ' 4 ?' %B%6@' 3=%' 55%55 7 %' 35' 4 ?' 4 ' 3=%' 1 %@5' 4 ?' 43%5' ?C%' 3=%6%C>1 ' 42216?" :' 31' 3=%' ' C> "243%' 3=%6%1$' H@' 3=% 7' 6%2%"B%?' 4 ?' 42216?" :' 31' 3=%' " 3% 3' 4 ?' 5CH5%' C% 3' ' "6%$3"1 5' 1$' 3="5' >6%5% 3' ?" E="2=' 54"?(CH21 %? 165' (46% =%6%H@' % C"6%?' 31' ?%7 4 ?' 5" ?' %B%6@' 3=%' 43%5' 4 ?' 55%55 7 %' 35' =%6%" ' 7 % 3"1 %?' F="2=' 46% 4"?' C>1 ' %651 5' " 5 6%5>%?3' 1$' 3=%"6' G11?5' 16' $$"2%5' 4 ?' 31' 7 4<%' 5C2=' ' % 7 4 ?5' 1$' 3=%' 463"%5' 3=% 75% B% 5 F"3=7' "I ' ?4@%5' 4$3%6' 3=%' %2%">3' 1$' 5C2=' E4664 3' 4 ?' 31' %B@' 4 ?' 4@' " ' 3=%' 54 7 %' C>1 ' 16' H%$16%' 3=%(%B% 3=' ?4@' 1$' 1B% 7 H%6' " ' 3=%' %46%' 1$' 1 6' 16. ' % 3=1C54 ?' 5" I ' =C ?6%?' %" : =3@' " % 16' F"3=" ' F% ;' ?4@%5' 4$3%6' 43' 5C2=' 42%' 45' 3=%' 1 7 7 "55"1 %65' 5=4 ' 4>>1" 3' C 31' 3=%"6' 6%5>%?3"B% %4?' 1 %? 165' F=1' 46% =%6%H@' 6% C"6%?' 31' 24 ' C>1 ' 4 ?' =453% ' 3=%"6' CH21 %? 165' 31' 3=%' 54"?' 4@7 % 3' ?' 43' 16' C>1 ' 3=%' &1C63%% 3=' ?4@' 1$' 1B% 7 H%6' 3=% ' %I3' % 5C%" :' 16' F"3=" ' F% 3@' ?4@%5' 4$3%6' 31' 3=%' %B@' H@' E4664 3' C ?%6' 3=%' 4 ?5' 4 ?' %4 %5' 1$' 4 @' F1' 16' 7 16%' 1$' 3=%' 54"?' 1 7 7 "55"1 %65' H@' ' "536%55%' C>1 ' 3=%' CH21 %? 165' 6%5>%? "B% @ 5C2=' C 7 "% 4 ?' C 7 7 %5' 1$' 1 %@' 45' H@' ="7' 16' 3=% 7' 1C : =3' 31' =4B%' H%% %' >4"?' 4 ?' "5' 16' 46%' 13' >4"?' H@' 6%451 ' 1$' ="5 $4" C6%' " ' ?1%" :' ="5' ' C3@' 42216?" :' 31' 3=%' ' "6%? "1 5' 1$' 3="5' ?" 51%(45' %B%6@' %4?' 1 %? 16' 7 4@' 7 4<%' 4@7 % 3' C 31' 3=%' %2%"B%6' G% %64 " 1$' 3=%' 54"?' 1C 3@' "?6" :' "3@' 4 ?' 1F % 4 ?' %B%6@' C ?6%?' E4>% 34<%' 46"5=' "B"5"1 ' 1F % 4 ?' 42% 3=%6%" ' " ' 4' 11<%' $' 462= 7 % 3' " ' >=4H%3"24 ' 6?%6' 4 ?' " ' 4' $4"6%' %>="%' 4 ?' F6"3%" :' 4 ?' F"3=" ' =6%%' 7 1 3=5' 4$3%6' 3=%' : 4 7 % 34 ' H%' 51%' H@' ="3 :' %2%"B%?' 5=4 ' .4 5" "33' 4 ' 4 ?' %B%6@' 3=%' 54 7 % 2=%?C %5' 4 ?' ' C> "243%5' 31' 3=%' $$"2%' 1$' % E6"3%6' 1$' 3=%' 4 "%5' 2133" 7 1 @ 24 %?' 3=%' C?"3165' 1$' 3=%' %2%">3;' 1$' 3=%' ' ! I 2=% C%6' F=1' "5 =%6%H@' "<%F"5%' 4C3=16"`%?' 4 ?' % C"6%?' 3=' ! 3%6' 3=%' 54 7 %' " ' 3=%' "<%' >=4H%3"24 ' 6?%6' " ' 4 13=%6' 11<%' 1$' 462= 7 % 3' $4"6%@' F6"33% (31' H%' >61B"?%?' $16' 3=43' >C6>15%' (

2 o' 3' "5' $C63=%6' ! 4 %?' 4 ?' ' %2 46%?' H@' 3=%' C3=16"3@' 4$16%54"?' =43' 3=%' 1 %@5' %2%"B%?' H@' 3=%' CH21" %_ 165' F"3=" ' 3=%' 6%5>%23"B%' ' "B"5"1 5' 16' C ?6%?5' 6""4 ' $61 7' 3" 7 %' 31' 3" 7 %' H%' ?C%@' >4"?' (31' 3=%' %4?' 1 % 1&' F=15% %2%">3' 5=4 ' =%' 4' 5C$$"2"%' 3' ' "52=46 : %' " 731' %B%6@' 5C2=' CH 1 %$316' F="2= CH21 % 16' $16' G43=%6" :' 3=%' 54"?' >463"2C 46' C6". 75' 5=4 ' 6%34" % " ' =$%' 4 ?5' $16' %B%6@' F% 3@' 5=" " :5' H@' ="7' 51%' >4"?' =6%%' >% 2% 45' 4' %F4 ?

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31' H%' %I%62"5%?' F"3=" ' 3=%' 'B"5"1 ' 16' "7"335' 1$' 5C2=' 177"55"1 %65' H@' F=17%' =%' "5 31' H%' 41%?' ?' 3=%'
H77"541 %65' F"3=" ' 3=%"6' 'B"5"1 ' 5=4 ' 451%' 55%55%' %B%6@' 55%5516' F"3=" ' 3=%"6' 'B"5"1 ' F=1' 5=4 ' H%' >155%55%?'
D 1$4 @ G11?5' 4 ?' =433%' 5' 16' 13=%6' %651 4 ' !5343%' $16' F="2=' H@' 3="5 $3' =%' 1C:=3' 31' H%' 43%?' 4 ?' 55%55%?'
?' 45' * '" '" L $ -]LO ' %B%V@' 3=%' 54"?' 177"55"1 %65' 4 ?' 55%55165' 45 3=%' 55%557%' 35' 74?%' 4 ?' 5%33' H@' 3=%'
55%55165' 4$16%54"?' 5=4 ' H%' E6"33%' ' !536%43%?' %B@%?' 4 ?' G43=%6%?' 45' "3' 5=1C?' 4 ?' 1C:=3' 31' 8 ' =4B%' H%%' % "$'
3=%' 56"?' 177"55"1 %65' =4?' 13' H%%' % 47%?' 1" "55"1 %65

·' H%%' "3' $C63=%6' ! 4$3%?' 4 ?' 6?4" %?' H@' 3=%' C3=16"3"%' 4$16%54"?' =43' 4 ' 4 ?' %B%6@' >%651 ' 4 ?' >%651 5'
=4B%" :' 4 @' =46%' 16' =46%5' 16' 3%6%53' " ' 3=%' $6%5=' 36%47%' 1$' C " :' F43%6' H61C:=3' 31' 3=%' 163=' >4635' 1$'

1 ?1 ' 2177 71 @' 24 %?' 3=%' %F' "B%6' 16' " ' 3=%' =47%5' E43%6' F16<5' 16' " ' 3=%' @?%' 46<%' 16' 46@H1 %' E43%65'
16' 4 @' % 35' 16' 61$"35' 46"5%" :' 3=%6%H@' ?' 4 ' %651 ' 4 ?' %651 5' =4B%" :(4 @' =46%' 16' 3%6%53' " ' 3=%' 312<%'
16' 312<5' $16' 6" 3" :' 1$' 11<%5" ' 16' H% 1 :" :' 31' 3=%' 1C5%' 2177 71 @' 24 %?' 3=%' 9" :5 6" 3" :' =1C5%' 5=4 ' >4@'
$16' 3=%' 547%' 3=%' C77%' 1$' %(5=" " :' $16' %B%6@' F% 3@' 5=" " :5' 1$' 3=%' 2%46%' %46%' @' 4 C%' 3=%6%1$' ?' 3=43'
4 ' 17>4 "%5' 1$' %62=4 35' " ' 1 ?1 ' 2=46:%?' H@' 3="5 $3' 5=4 ' H%' 55%55%?' H@' 3=%' 177"55"1 %65' 31' H%' 17" 43%?'
4 ?' 4>>1" 3%?' $16' 3=%' 54"?' "3@' 13' 4 @' =6%%' 1$' 3=%7' $16' 3=%"6' 6%5>%$3"B%' .H@' 3' 312<' 4 ?' 312<5' ?' 4 ' 4 ?'
%B%6@' %651 ' 4 ?' %651 5' =4B%" :' 4 @' =46%' 16' =46%5' 16' 3%6%53' " ' 3=%' %F' "B%6' E43%6' H61C:=3' 31' 3=%' 163=' (
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/*' ·' 4 F4@%5' 4 ?' "3' "5 =%6%H@' '%2 46%?' =43' 3=%' 5%B%64 ' 43%5' 4 ?' 4I%5' 31' F="2=' 3=%' 16?5' 4 ? %%6%5'
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4$16%54"?' F="2=' 3=%@' 16' 4 @' 31' 3=%"6' C5%' =4B%' F"3=" ' 3=% 42%5' 4$16%54"?' 6' 31' 4 @' F=1' =4B%" :' H%% %'
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! :4 ?' 16' " ' 3=%' 54"?R9" :?17%' 1$' 6%4 ?' ?' "$' 4 @' %651 ' 16' %651 5' %63 $@%?' 55%5<?' 16' 43%?' $16' 16'
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=%' 16' 3=%@' 74@' H%' 43%?' 16' =46:%?' ?1%' $" ?%' =" 7' 16' 3=?75%' B%5' 4:6"%B%?' F"3=' 5C2=' 55%55" :' 16' 43%" :' 4 ?'
?1%' F"3=" ' % ' ?4@%5' 4$3%6' '%74 ?' 3=%6%1$' 74?%' 217>4" % 31' 3=%' 177"55"1 %65' \3=%' 54"?' 1" "55"1 %65'B' 16'4 @'
3F1' 16' 716%' 1$' 3=%7' 8F=%6%1$' 1 % 1$' 3=%' 177"55"1 %65' F=1' ": %?' 16' 1F%?K ="5 16' 3=%$3' 43%' 31' H%' 1 %'
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(54"?' 55 57%' 3' ?' 3=%' 547%' 51%' 4H43%?' " 26%45%?' 16' " 46:%?' 5=4 ' H%' %63"$"%?' 16' !536%43%?' H@' 3=%7' " 31'
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2 o' H%% "3 $C63=%6 ! 4$3%?'(H@' 3=% C3=16"3"% 4$16%54"?' =43 1% %33%65 43% 35 :64 3%?' H@' 3=%"6 4.%53@%5 16 4 @ 1$' 3=%"6 1@4 ' 61:% "3165 31 4 @ %651 ' 16 %651 5 "3"%5 C661C:=5 1B 1F %5 16>1643% F"3=" ' 3=%"5 %4 7 % 1$' 4 @ 74 %6 1$' "H%63"%5 6"B" %?:%5 16 ! I %7>3"1 5 $61 7 ' CH5"?"%5 1 5 41%5 55%55 7 % 35 16 "?%5 5=4 ' H% 21 536C%?' 16 34<% ' 31 %I%7>3 4 @ %651 ' 16 %651 5 "3@' C661C:=5 16 1F % 16>1643% 16 4 @ 3=% =4H"34 35 1$' 3=% 54 7 % $61 7 ' 3=%' C63=% ' 4 ?' =46:% 1$' 4 @ C7 7 % 16 C7 75 1$' 1 %@ :64 3%?' H@' 3="5 $3' C3 3=43 4 ' 4 ?' %B%6@' 5C2=' %651 ' 4 ?' %651 5 "3@' C661C:=5 4 ?' 1F % 16>1643% 5=4 ' >4@ 3=%"6 61>163"1 ' 1$' 4 ' 43%5 "?' 55%55 7 % 35 H@' 3="5 >6%5% 3 $3' "7>15%?' 84 @' 5C2=' %33%65 43% 35 G64 35 16 =463%65 16(4 @ 4C5% 1$' 1 ' 1H534 3% 7433%6 16 3=" :' 3=%6%" ' 21 34" %?' 16 4 @ 4F' 343C3% C531 7 % 16 6%526">3"1 ' 31 3=% 21 3646@' 13F"3=534 ?" :

7 - @ o o' 4 51% =43 1% %651 ' " =4H"3" :' " ' 4 @ "3@' C661C:=5 16 1F % 16>16<% 5=4 ' H% 21 7 >% %?' 31 H% 4 @ <%5516 16 1 %$316 1$' 16 $16 4 @ >463 1$' 3=% 43%5 4 ?' 55%55 7 % 35 =%6%H@' :64 3%?' " ' 4 @ 42% 16 42%5 1C3 1$' 3=% " 7 "335 1$' 3=% 54"?' C661C:=5 16 1F % 16>1643%

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L N I ' 4 51% =43 F=%6% 4 @ %651 ' " =4H"3" :' F"3=" ' 3=% "3@' 1$' 1 ?1 ' 16 4 @ 13=%6 "3@' 16 1F % 16>1643% =43=' ="5 ' F " : =1C5% " ' 1 % 1$' 3=% 46"5=%5 4 ?' E46?5 3=%6%" ' 4 ?' =43=' 4 @ G11?5 E46%5 16 %62=4 ?"`%5 2=46:%4H % H@' 3="5 $3' " ' 1 % 16 7 16% 1$' 3=% 13=%6 46"5=%5 16 E46?5 " ' 3=% 54 7 % "3@' =43 3=% ' 5C2=' %651 ' 5=C ' ? "6:%?' 4 I%?' 4 ?' 55%55%?'($16 5C2=' ="5 G11?5 16 %62=4 ?"`%5 " ' 3=% 46"5=' 16 E46?' F=%6% =% ?F% %3=' 4 ?' 13 % 5%F=%6% " ' 3=% 54"?' "3@

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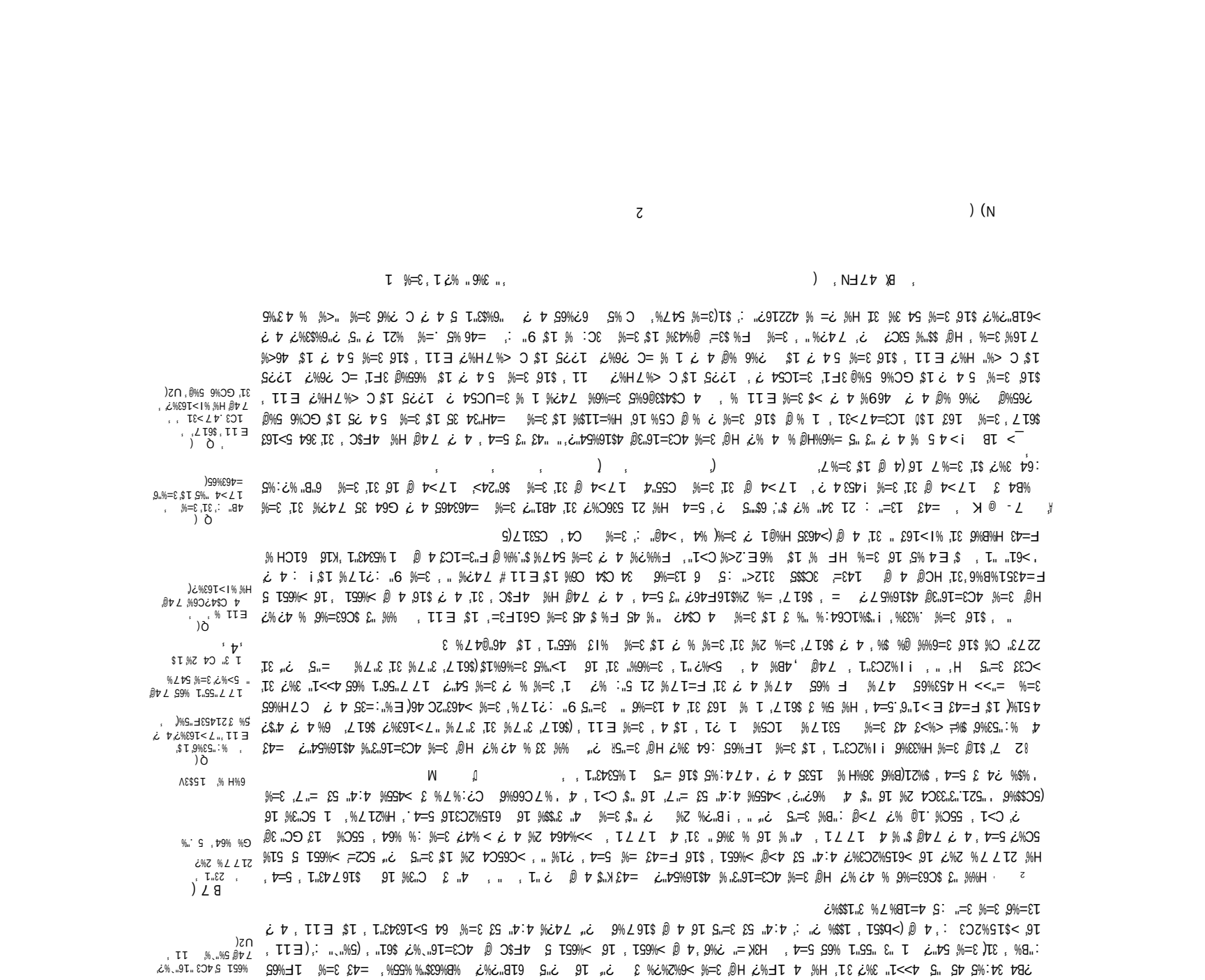

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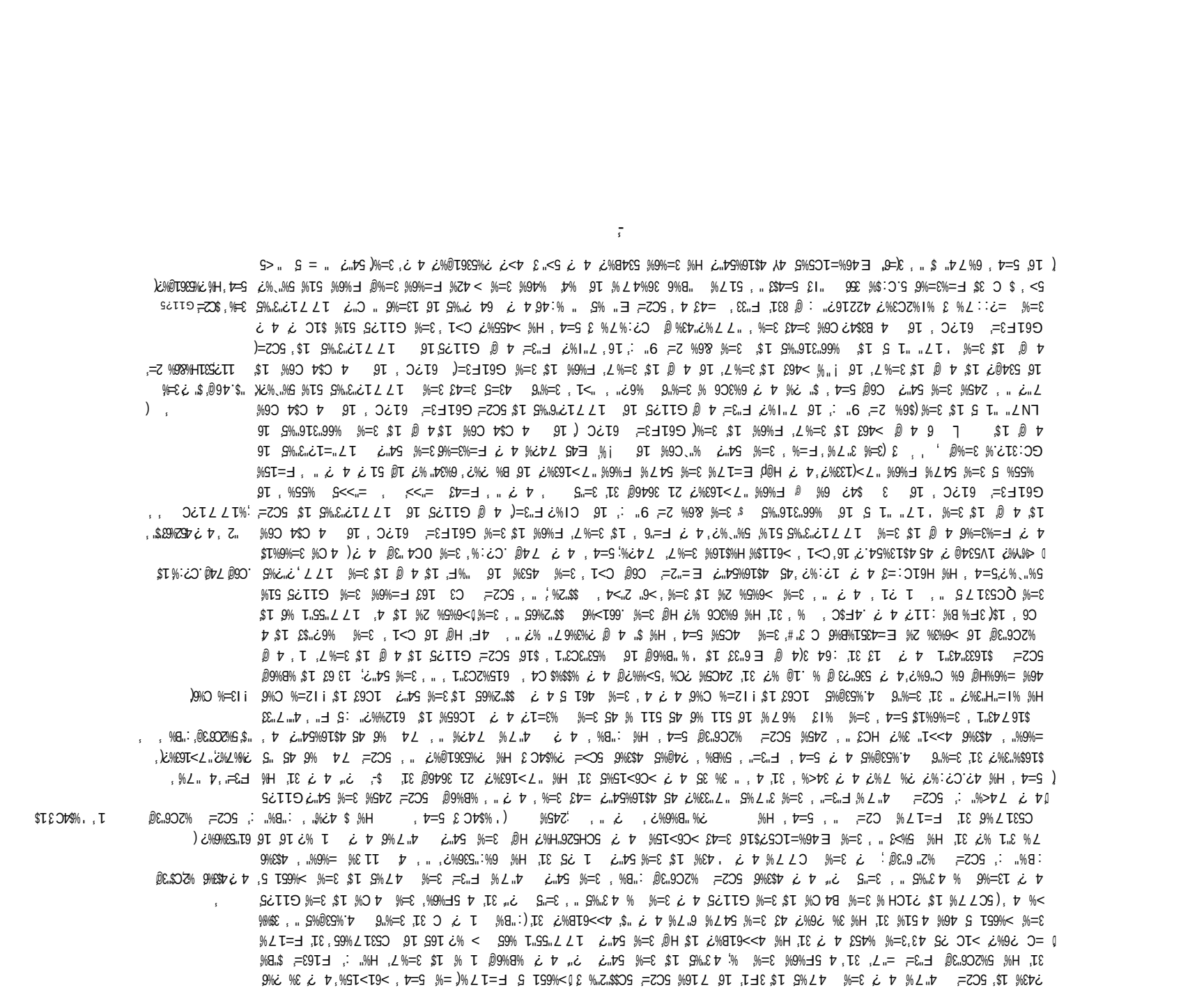

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E=4351%B%6 ?' %B%6@ 5C2=' ! 36@ 1$' %42=' %"`C6% F"3=' 3=%' 3" 7 % 1$' B"%F" :' 1>% " :' 4 ? %I47" %" :' 3=%6%1$ 31' H%' ?C% @ % 36%?' 4 ? 5CH526"H%?' H@' 3=% $$"2%65' 4$16%54"?' 4 ? H@' 3=% E46%=1C5% <%%>%6' 16' C6B%@1C6 ' F=%6% 1% E46%=1C5% <%%>%6' "5' %534H "5=%?' E ."2=' !I47" 43"1 ' \4 51% 5=4]' H% 6%>%43%?' 4 ?' % 36%?' " ' 74 %6' 4$16%54"?' H@' 3=% 54"?' $$"2%65' 4$3%6' 1 ?%7 43"1 ' 1$' 3=% 54"?' G11?5' 43' 3=% 3" 7 % >$' 3=% (?% "B%6@ 1C3' 1$' 4 @ 3=%' 54"?' Q 11?5' 31' H%' ?%5361@%?' 16' 13=%6F"5% ?"5>15%?' 1$' 4 ?' 31' H% ?" ":% 3@ 217>46%?' F"3=' 3=% $"653' ! 36@ 31' >6%B% 3' 4 @ &64C?' =4 :% 16' 7H%`% 7% 3' ?' " ' 245% 4 @ 5=4 ' H% $1C ?' C>1 ' 5C2=' !I47" 43"1 ' 16' 4$3%6' ?% "B%6@ C>1 ' 3=% ?%536C?""1 ' 1$' 3=% 54"?' G11?5' 3=% 547% 31' H% % 36%?' 4 ?' 5CH526"H%? " ' 3=%'54"?' 11<% H@' 3=% >6" 2">4 ' $$"2%6 1$' 3=% 54"?' 163' 13' =4B%" :' =46:% 1$' 3=% 54"?' (E46%=1C5% 4 ?' 36C ' 1>" ' 1$' 4 '3=% 54"?' ! 36@%5' 4 ? !I47" 43"1 5' F"3=' 3=% 4" 7%5' 45' 4$16%54"?' 45' 451% 436C% %63"$"243% 1$' 3=% ?%53$C?"1 '1$' 3=% 54"?' G11?5' 5": %? 45' 4$16%54"?' H% $617' 3" 7% 31' 3" 7% 364 57"33%?' H@' 3=% 1 %? 16' 1$' 3=% 54"?' 163' "" 31' 3=% 1" "55"1 %65' &467%65 >6" 2">4 ' $$"2%65' 16' 13=%6' >%651 5' =4B%" :' 3=% 4 4:%6@ ' 1$' 3=?6' 4.%53@%5 C531">5' $16' 3=% 3" 7% H%" :' 31:%3=%6 63$"3=' 3=% 71 3=' @' H5364? 5' 1$' 3=% 54"?' 1635' F="2=' 5=4 ' H% 246%$C @ $" %? 4 ? JAK'?"53" ?' 4%217>3' <%>3' 3=%6%1$ H@' 3=% %:"53%6' 1$' 3=% %"`C6%5 " ' 3=% 163' 1$' 1 ?1 ' ' ;' (

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E4$%6 !5321C63 1= 61E " :' 47C% 6H374 E" "47 " :5213(E 47 'H "5 "6 (4>= 'C331 1= 1F% 1= 1I%F% (E" "47 4 1H%63 %"5%@ "6 "2=46? 51F 461 %3 ?3%F 46<%6 1H%63 >"%@?4 G%16:% 4=:%6 1H%63 3%6?:% =1745 4"53%65 6"%631 1C62="%6 "2=46? 13B =1745 7"3= =1745 1631 (=" ">' =%>46? =1745 "?%6 "?%6 1$!?:F163= $=1745 3%>=% 5 \ 1= R] 453%74 @1 % "2= %42=@ !?F46? 3%B% 5 4C ' 1?F% F &%%3F16? '1667%6 1 B4@ E="3=16 % 15=C4 " %F163= 1$ " %F163= "6 C>2178% 12=?53%$ G%16:% 1 ? 1= "2<$16? 4" 46? 12=%53%6 =1745(%6<% E" "47 4??>2<5 4C _ 1%@, "2% 43%5 %:" 4?(" ?46 E" "47 1:%65 E4" 47 E"7""433 E" "47 4@ @ G%16:% >@? 47%5 "2=%. "2=46? 43% E" "47 6@("6 1= "5=$"% ? =1745 $2=%53%6 ("6 1= &C53 =1745 E"5% !?F46? " "3= "6 "2=46? 463 "6 =1745 4 "2=46? 1>%5 1= %6%?%3= =1745 C6 % 1= '1C5% !?F46? 1C 34:C% E" "47 \ 4"$"%$11%e] =1745 613@ % >$ 154F % 1= 46<=C.53 E" "47 E" 3%6 47C% '1HH.>5 "2=4% %4 % "6 1= 'GC" % E" "47 (11<% !?F46? 11<% 1= GC"5% E" "47 GC"5% E" "47 % F" 1F4 ? E >1? E" "47 4F6% 2% 1= 1E% K %6.%4 3 43 4F % 6@ 6%33 1= 12<5 E" "47(2=C?4716 1' E" "47 1?:%5 "3 1H%63(3". 5 5% "16 3%>=% 4?F" 1H%63 1?6" :31 =6"531>=%6 1C 342C !?F46? =47H%6 4" % 47C% 46<%6(1= G6"$2(" "47 C33%6H11<% "2=46? 1$16? "2=46? 4@ %5 1= 34$$16? 4>"C% 1?6" :31 1= % ">' 1= 46< %@ "6 > % 11<%RE" "47 1B%@ =1745 6":' 43=4 "% %63 "2=46? 4@F46? E" "4">' E$433%6 4>5$113(

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&16 3=% "3@ 1$ %6%$16?

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=% ":=3 1=HC64H% 3=% !46% 1$ '4 H@ 3=%' 1 1C64.% 1H%63 %2" # !5 C"6% "6 47C% .(G6"7531 ' "6 "2=46? &64 2<3" ' "6 1= G4646? 6 1= C53% "6 E" "47 %74 ' "6 1H%63 12% " ' "6 1= E"33%61 :' "6 E" "47 1F>%6 "6 =16 45 1>% 1C>3 "6 "2=46? ?%631 ' "6 !?71" ? ?%651 ' "6 1 43=4 ' 9%43% "6 1= 61:64B% 4@1 %35 "6 ?= G16% .6 C7>=6%@ G16% "6 =1745 "?% "6 =46%5 %546 "6 E" "47 "33> ' "6 4>= 432 "$$% "6 1= C2<=% ' "6 1H%>' 465=47 9 ":=35 1H%63 C53" ' 1= ""77%6 =1745 45%@ 4.>= &6%% 4= 1H%63 ! F4@%5 G" H%63 ?1 9%43 E" "47 G16% 47%5 E"33%61 :' E" "47 1E>%6 (=1745 =433%6?% ' !?F46? 6"521% .C "16 % 6@ =. ?% % 6@ GC@ =17 ' 6"%53@ G%16:% 4? %@ 1= G4>% 5% " 3(1= "5 =1745(' 66"5 G%16:% 1?%5 =1745 6647' E" "47 6"521% "2=46? $"% ?%6 =$L745 1741' =1745 C53% W "2=46? 1F 1=W !??1F(%5 1= ; 11<% 47%5 3%?74"" 564% " 4@1 1= G16% %6"$%6? C6 %6 364 :% 1@2% " 15%>= 16?4 4674?C<% $ 4@?% K](' % 6@ " :31 ' E" "47 463" ' 4 ? =1745 E" $16? !5 C"6%5(

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=% H 1C64=% 1H%63 1C 34 % !5 C"6% =%' 1 1C64H% @? %@ E163 4@ 1C 34:C% ! C"6% "6R 1H%63 %6 46? 461 %3 1=C 61H@ 1= 1 @%65 1= '6@?1 ==6 %5 %546 1H%63 >>6%%2 "2?"46? 4@16 3= @ 47 71?? 1= ::; 4="%5 16<" :31=' E" "47 4@1C6 1= &%6@%6 2H%63 C"1@ % 1= 12<" :31 ' 1= 6"2% "2=46? '6C6@' ; 1H%63 =61:71631 ' !5 C"6%5 "2=46? E@ ?% 1H%63 "46<% &$''$ % 47@ E"$$"47 &C %6 4 "%5 E6":=3 E3=47 "2=1 5 "2=46? 43 %@ G% 3%7% (

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(G%16:% %6>"33 4@16 "2=46? 536%@ 47%5 &4"65"?% E" "47 1F5% =1745 4@%6 !?F46? C?%@ 15%>= D 461F =1745 466"5(:%# G%=3%7%"H 1= 12<"=:3? ' !5 C"6%' D

D D 16 3=% 1C 3@ 1$ 9% 3 ' R ' (

=% <16? "5%1 3 &4 <.4 ? 3=% 1 1C64H% "6 %6% &4 ' 9 ":=3 1$ 3=% ?3= 3=%(1 1C64H%(&%6%:6" %' %6" ' !5 C"6% 3=% 1 1C64H% 4%<6""% H$31 ' !5 C"6% =%' 1 1C64H% "% %4:%&" 2= !5 C"6% "6 E" "47' F"5 ' "6 =46%5 "?%@' 1$ 1C3=$%%3% "6 =46%5 @?.%@' 1$ ("6 =1745 1H4635 "6 %6@ 47%6 "6 =" "> 13% %6 "6' =1745 C> %6 1$ @%5$16? "6 =1745 3"%5 ("6D G%16:% "B%65 "6 j4Y" ' "IF% ' "6 1= 9 432HHC ' "6 1= 4@ %@ "6 1H%63 4%5 "6 3%>=% ' %1 46? "6 C7>=6%@ " %6 "6 1= 465=47 "6 E" "47 1 %@F11? "6 =1745 %"62% "6 1= 4 <%5("6 43=4 "% ' 1F% ' "6 1= C53% ' 6 =1745 %@46? "6 3=1 @ 62=%6 "6 1= &4:' "6 47%5R GI% ?% ' "6 E" "47 F4 ' "6 1H%63 & 7%6 "6 1= =4F "6 1= (C3%6("6 1:%6 F"5?:" "6 G%16:% =C3% "6 H1745'K 4@16 "6 1= K=H6?4 3 "6 1= %3=%"%6 461 %35 ("6(1= 466% ' "6 G%16:% GC$3%@5 "6 =46%5("2 6534$$ ' "6 % 6@ 15F% ' .6 D "2=145 6"5>% "6 1H%63 &4C 2% "6 "2=145 8 ' "6 =163"45 C>%>%6 "6 1H%63 465=47 ' "$ 47%5 4@%5 "6 1= %":= "6 15%>= E" "4751 ' "6 E""""" 1 !4 :=16 % "6 E" "47 11<%6 "6 !?F46? 453%65 9 ":=35 1 1 % ' %4C71 3 G1B% "1C6 1$>1B%6 G4533% =$"531>=%6 4 % 1H%63 7"3= =1745;&4 % !?F46? 4%5 !5 " 6%5 (=1745 9 432=H ' E" "47 E433H ' =46%5 7=C643 %$$%6@ 6=3"653D =1745 ' @?%6 E". "47 ' 47>?13$ 4%H 4 <%5 1= %%2= 1H%63 %F$2% %6 G"?%1 ' ?% 4C % 1= 9=2=% ' !5 C"6%5 G%16:% 464 <% ?% ' G% 3%74 ' E" $47 1@5% 1$ 6 E" "43 %""? " 1H%63 C53% '5% "16 1H%63 64@"=6? 47%5 453%65 1$ 4 :?% E4"35e' (6%47%5 %6H%63 4 ?1>= !5 C"6%5 1= V 1@5% ?= =C6H1 ' %6.%4 3 43 34E' E" "47 4771?G $ (G%16:% 2133 !5 C"6% 47%5 =4?F"2< G% 3E" "4 3 9" :5 %@ .$%""16 =6"531>=%6 " 5 6@ =16 =" ' !5 "6%5 4 26"" H42617@ G% 3 47C% =163 !5 j E" "4 612<74 ? "32=H1 C:= E" "47 6 <74 1& =%66"31 ? MMM MMM W MMM MMM (MMM MMM MMM MMM)MMMMM

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6C7>' =1745 10% G% 3%7% ' =1745 4>" 1 ' =1745 C C5 &64 2"5 43=C653 15 C"6%5 47%5' C 2% G%16:% %33@ K E" "47' %H@'G%16:% 1 =" ' 1=' @?% 4.16 G"HH" 5 1H%63 G"HH1 ' 1=' 1$ <% =1745 5H16 % 47%5 %6H%63 4 >=' C$<" ' 1= ' 6%F%6 1=' 46<%6' =1745 ' 4 "51 ' i?F46? GC "51 ' %@ 4 ?' %2<=47' E" "47' 4:% "2=1 45 " %6 1=' E" <" 51 ' "2=46?'G1??% ' 1= (9 432=HC ' =1745 6%F%6 15 C"6%5 =1745 4 %@ i5 C"6% =1745 E" "47' ? %@F11? G% 3%7% ' G%16:% 4@%65 "2% "47' C:%5% ' %1 46?' "::H' =1745 G17%? ' G16% 1=' 133 1 %@F11? "2=145 11 "%' G% 3%7% ' E" "47' 461 %3 ' %.%4 3 43 4F 1=' C"C5 '%%?5 1=' =%674 ' =6"531>=%6 '%6" :' 15 C"3%5 " 2% 3 ' % ' %.%4 3 43 4F' G%16:% i 212<' 15 C"6% E" "47' 421H ' 1$316 1$ =@5"2< % 6@ I% ?% ' % 6@ 4F %@ "2=46?' I% ?% ' 1=' "32=% ' 15 C"6%5 3 .35 % %33"3 1$ =4 %3 15%5(4> %31 ' G% 3%7% ' %6H%63 4 >%6 E163 %@ E=16F11?' %3"6@ %% 15 C"6%5 1=' E=%3"%% ?' % 6@ G1??% ' =46 %5 46:64B% E" "47' 1C63=1>% G% 3%7% ' %6H%63 %43=' 1=' !B% " ' !?F46? C53" ' E" "4. ' 47H%63 E" "47' 5=' 15 C"6%5 E" "47' E" <" 51 ' G% $ (1=' 4524 ' G% $ =" "=' 463=1 17%F' , % $ E" "47' 16"31 ' G%16:% G"$$16? &64 2"5 &46 4H@ 4 >=' %3 @ E" "4" ;' E4 (1=' C::" 5 1H%63' C53" ' .37"16 47%5 1??(%14 ?%6 C >%>%6 47C%' C77%6 15 C"6%5 E" "47' E=3"% G% $ 1=' \ 6".$>%.';1$' 4"?531 %(1:%6' 4@ % =1745' 4> %31 (=1745 GH?$6%@' 15 C"$%5 ' =1745 (G1?$6%@' 1$ 1??' $16? G% $' G 6:%' 11<' i?F46?' """33 % 6@ 465=' =1745 6%F%6 1$ 163=$ %%3 =1745 E45=%6' 1H%63 "32=% ' =1745 "55% %1$$%6@ 1@5% i?F46?' \ 1"5%]' 47C%' (=4E' 1=' 451 ' =1745 4 %5 5% "16' =1745 4 %5'.C '16 G%16:%(C63%"5 15 C"6%5 G%16:% ' 4> %5?%' =46 %5 1C631>' =1745(C6 %6 1$ \ " 5B' G% $ =H745 ?6"4 ' 1=' &13=%6H@ &64 2"5 466% ' =1 "45 %@46?' =6"531>=%6 "51 ' % 6@ M4 ?5 %62"B4 ' 463 i?F46? 4 " .' i?F46? 6% 3 47%5 &1636%@' i?F46? ZW. ' % 6@ (.4F %@' i5 C"6% 6%5F% ' ,.64>%6 i?F46? 9" .' =1745 G"$$ 3?' i?E46? 433"F ' i?71 ?'K 1<%' i5 C 6% ' 3=% 4@16' '1$ 12=%53%6' $16(3=% 3"7% H%" :' 3=% 4@16 1$ 4"?531 % $16' 3=% 7"7'H%" :' 1=' 17% =46 %5 &4 :.;' G% 3 E" "47' 4<%6' 1=' =5?<%6 >%3%6' 463=3 1=' C C 3 C6435 E" "47' &" 2=' =1745 4<%6(4 ?1>' 1=' C >%>%6 i5 C"6% =1745 %6%?"3=' G% $ C7>=6@ 3"%5 'i5 ' "2=46?' C 5% 1$ %3=%65?% ' G% $ (G%16:% E"3=F"2< G% $ =1745 E"3=;F"2< i5 =1745 6%33 E" "47' 6%33 G% 3 i?F46? 4 %@ 1$ E 1 ?=47' 3=%(C343%5 1$ 4"?531 % H%" :' C53"2%5 1$ 3=% %42:' 1=' i4B%5 G% $ 3=%(\ 4" "$$%4]' 4 ? i1>% ?"3165 1$ 17 %@ 465=' $16 3=% 3"7% H%" :' .47" ' G1?$6%@' 1=' 1 ?' \ 4@16' % %3e]' 1$ 4"?531 % =1745 166"5 G%6"$ E" "47(47%5 i5 C"6% 4>34" % 17 " ' $ 1>>" '1$ ' %4 % =6"531>=%6' 4513(=6"531>$6%6' =%674 ' =6"531>=%6' 4@ i DF4W? 1 @' 1=' O 11F 5% "16 12=%53%6' G466%3' > 4C3 =1745' "55% $2=46?' i=@' 1H%63' 4 71 ' 1$' 4"?531 % E" 47' >% 2%6' i5]' 4>34" % 1C63H >' i "4"'1 ' C2<%6' G4"3$% 7% ' 1=' 6@4 ' 10@5% 1$ 12=%53%6' 1= E11?' 1$ 4"?531 % C65 ;' 1H%63' 4C ?%65' E" "47' %42?%6' 1$ 4"?531 %(' 43=C653 "24C3 =1745 465=' G% $ =46 %5' 9% 6"%<' 1=' 2=' i(5 =$6%5 =1745 ="$" 2=' 1=' 461 ' G% 3 "3@ 1$ &16 3"=% "3@ 4 ?' 1 3@ 1$' 4 3%H3 6@(▯ (

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4 43" % 1$ 4 2453%6 4 ? H % (4 ? %"6% >>46% 3 31 3=% ":=3 1 1C64H % 3=% !46 % 1$ " ?5%@ 16?' G6%43
=47H%6 4" % 1$! :4 ? "2=46? 16? 12=%53%6 \% ?%53]' 1 % 4 ? >"6% >>46% 3 1$ =1745 !46 % "B%65
=46 %5 16? 64 ?1 ' % ?%53 1 % 4 ? %"6% >>46% 3 1$ =46 %5 !46 ' 1$ 42 %5$% ? 4 ? 16?' "%$3% 4 3 1$
3=% 54"? ' 1C 3@ ' 4 43" % =% 1 1C64H % 47%5 34 %@ =% 1 1C64H % !"331 ' G%6646? "3 =46 %5 1C:=31 '
"6 !?71 ?' 5=31 ' "6 ' =1745 34 %@ "6 4>=' 5=31 ' "6 "2=46?' $4 ?"5=' "6 % 6@ 5=C653 K "6 1H%63
C2<% $"% ?' 461 %35 "6 !?F46?' G="5% =4 ' "6 ' " "% ' & %7" :' "6 ?F46?' 1 % @ 9 ":=35 =1745 1331 '
%3%6 1 ?' .4 35 166"5M %e6 %":=' 1:%6 1% ' 1:%6 9"6H@ =1745 6%531 ' !?F46?' %%3F11?' E" "47 ' '
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"6 1H%63 % %@ "6 E4 3%6 46:%5 "6 E" "47 6"32=% 9 ":=35 "6 E" "47K E1:4 %..%4 "3 g3 4F =46 %5 1C 34:C% !5 " "6% "6 "2 "46? %F?":43% 461 %3 "6 E" "47 E" "475 9 ":=3 4 ? 431$ %3 "6 $% 6@ 46F11? 461 %3 "6 1= 4 2<5 9 ":=3 4 ? 461 %3 "6 % 6@ 5K=C653 $"461 %3 "6 =46 %5 7>=6%B" 1H%63 '137%6 !5 4 >= C2< 4 "2=46? 51F 1$ 433 G46?% 8 =1745 '1 % 611<% 6"?:%5 !5 C"6%5 =?"3H65 1$ =%"6 4.%53@%5 7>6%53 =" ">5 !5 C"6% C?"316 1$ =%"6 4.%53@%5 1C63 1$!I2=% C%6 "2=145 4" 31 1= E153 =1 7% 15C4 G4 "46?Y 47%5 C ?4@ E" "47 B%6@ 1= 7"3= ?47 ?6%F5 !?F46? 466"5 1= CI %@ 43=C653 =1745 C53% E" "47 ,C53% E" "47 4$% E" "47 C2<% % "531= E=4 %@ =%%<% G%6646? =1745 &64 2<" "2=46? 4:% 1= "2=1 4 2% 13 4<% !?71 ? 6"?%4CI 1= 46>% ?%6 =1745 4>'%6 4>'" 4F36%@ G%16:%' "3F% 'K!?F46? 4> "5?% "2=46? =16?"$3." 1= 34 "> &64 2"5 5=H@ 4 2% 13 1= 51 1:%6 % " :5 &64 2"5 %66"2< =1745 466"51 1= E4<%6 1$ " " :?1 E" "47 GC 531 1= E4<%6 1$ 4? %@ 47%5 =4?F"2< E" "47 % "3= 47%5 1C3=4H@ % 6@ 4F %@ =6"531>=%6 "3=%61F% K "2=145 G6"2% =1745 F% 1= '4B% >163 1H%63 %4 % 1H%63 %F?":43% %7@ 1 " 5 =1745 %465=1C5% % 6@ %@ % =1745 E11?' %1 4$?' 471 ? ==6"%5 '37217H% 1= 1 %5 =1745 4 " :' '4 "% 61?316 (1= 43%6 C7>=6%@ !3=%6" :31 % 6@ 46<%6 !5 %6<% 1$ 3=% 61F % 1H%63 =%$$"% ? =1745 % 5=32@ =1745 %3=1? 1= 6%%? G6%:16@ 9" : =1 45 E%HH(=1745 %>5? =1 $4 53X &64 2"5 64 ? "2=46? 4@%6" 3=1 @K 1C65%(=1745 G6% :' !?F46? % 1= 4@71 ? "2=46? 64?12< 5442 1 %@B 11? 4 1?6%= %6<%'31 ;3=% 1 1C64H % 1C5% 1$ 1771 5 "2=46? 531 =1745 466"13 =1745 4 (47%5 '%F%@ (=1745 7"3= E" "47 "$>6? %$$%6@ ":=3">:4" E" "47 E"3=%65 1= %66@ !?F46? 1>3=%@ &64 2"5 "51 =1745 11<% = 74 'K 455% =1745 1= 51 C2@f 9 ":=$%@ 43" '@2<74 C% %3%6 C ?C% " 1 E" "47 E" "5 E" f 1= 51 43=4 "%" F% 4>34" % E" (\ E" ?@ G4>34" % 1= 163= =>34. % E" '$%" ?K "f 4>34" % 1= 163= G4>34" % E" =' $4 ?]'G%16:%' &16? \ %"3%@3 'E4<%" '$ 4F@ 55% 3 "2=46?' 4B".%3$ $@' "5H@ 15%>= "55%3 64B% %@327 4>= C%< 4 1= %' %B% %$"6@ 45546? 4F7%33 C2<%' "2=46? =$" %6 462"55C5 C33%6% &64 %"5 F"5?% 'E" .47 6"?:%5 =1745 1HH5 1H%6$ %@31 'E" "47'&6%%74 '1$ 3 G" %5 =1745 "7>51 H"1 'G=4"6% E" "47 $>65H@ !5 1= 1 <% =1745 E"4?1?' E" 47 %7>%53 !5 =3%5 613$"1 1346"%5 1$'3=% 1C63 1$ 1771 %45 43 E%537" 53%6 &34 %" 61F % 47C% 17%6$16? !?71 ? G6"$% 1:%6 31C:=31 3=1=@' 1F%' 47C% C2<' E" "47' !36<<%' !?F46$' "?%' 4>= "?% C:= "7>51 1= 6155% =1745 "F46? 1H%63 %6<5 '&18Y3% 51F' =46%5 . 1CI31]]' &64 2"5 =42<%$!?F46? 1% '!5 >"6%5 =1745 C??' 1= 4 GX 3%7%" =% 1 1C64H % =1745(%F>16'!5 ' 47%5 =4?F<<% !5 =46%5 4F36%@ 1= % 7:51$' %5 % '='=2>'1$.%55%' ?47'E46%" :' E" "47'&% 4 1= 4:%5% "16 "2=46?' C::' E" "47'E4<%6 43=4 "%" 42@ %6"6@ 6?%3 1$ 133% =47' 47C% 1" 3%6 E" 947' 4C">$"% ? "2=46?' =15 E" "47' E%HH H64=47' %51 1H%63 <" %6 1= f 11<45 7H615% 53%?' =1745 466"5 3=1 @ GC"?133;]'KG%16:%' !?F46?5 46%F(GC@?13 47C% 613 74 ' 1= ' 4" 71 ' 1= ' %6"?4 % = ' 4 2@ &64332"5 463@ 47%5 3%6 7463 G11?% 1C:=' E" "47 '

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1$' 6%?%:46' "2=46?' %F"5' 1= ' E" "475' % 6@' 61H%63' =1745' %F"5' 1= ' 6 1?' =46 %5' 4 ' "2=46?' "53%6'
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16:4 ' !?F46?' 1 %5' 1:%6' 43%5' G%16:%' 9%7%@5' !?F46?' %6<" 5' 1= ' 16:4 ' 1$' 6%?%:46' %F"5 ' 16:4 '
4>% ' 4 HC6@' =1745' 1 %5' 1= ' E4 3%6' 1= ' &1@%6' =46 %5' C:=%5' 1H%63' GC 3%6' 47%5 16:4 ' 1$' 4 3" "1'
%63=1 %@' =46 %5' 16:4 ' 1$' 6%?%:46' 1= ' 6"2=46?' 1$' 47>51 ' "2=1 45' 46<%6(=6"531>=%6' 6"2%' "2=1 45'
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(43=%F' 1F% ' % 6@' 17<" 5' "2=46?' 1H%635' 1= ' 2C?4716%' 463" ' 2C?4716%' 47%5 16:4 ' !5 C"6U'
E" "47' %3=" ' !?F46?' 9%7%@5' 1= ' %F"5' K1$' $31 ' " ' 1= " 16:4 ' 1$' 4 % ?%:% 1= ' 9%32=74@' UF 4 ?'
E" "475' 433="45' "6?' E4 3%6' ?%@' 1H%63' 1 %5' =46 %5' E" "475' %=%7"4=' E" "475' 1= ' 16:4 ' 1$' G642%'
%' 1= ' G64::5 ; 4 3%6' &163C %' E" "47' 16:4 ' =%1>=" C5' %@ 1?5' "2=46?'(1 %5' E4 3%6' %2" ' 1= ' 1 %5'
1:%6' E" "475' 1= ' 466"5' 1$' $%6:4B% @' E" "47' 1F% ' 1$' 11 % 4 ' "2=46?; 4C:=4 ' &64 2"5' E" "475'
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43=? ' 1:%65' =%?% ' 1F% ' 3=% 4@16' 1$' 1 71C3=' 3=% 4@16' 1$' %F>163' 3=% 1"36%B%' 1$' 5<%' 3=% 4@ "$$%'
1$' H%6:4B% @' 564%" E43%65' "" :!' 466"5' E" "47' %@%5 =46 %5' 1 %5' 1$' 4:16' % 6@' 21 ?' E" "47(6"32=46?'
1$' 4 :43312<' E" "47' G%16:% >$' 3=% 547%' G%16:% %F"5' 1$' ." 3' %%6%' 1= ' 16:4 ' 1$' 4 3=%F@' 47%5'
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"6' 1H%63' 421 ' "6' % 6@' $1H463' "$' (1H%63' '6C6@' "6' 1= ' 1 4 ?' "6' C:C53" % 4:64B%' "6' 1= '
\ %36Cm39 ' "6' 1H%63' 9%7>' "6' 421H' 53% %@' "6' 1:%6' 1335' "6' =1745' E46?' "6' E" "47' 11<%' "6'!?71 ?'
'1@ %@' "6' =1745' ?4">5' "6' %3%6' G %4 ' "6' =13 45' G>6646?' 461 %35' "6' %B" ' 43%" ' "6' &64 2"5' GC@H1 '
("6' "4"=' 4=$' "6' 1= ' C6 %6' "6' !?. 46?' ="5133=4 ' "6' (%6" ' (E"2=' "2=f %66@' 1$' 9"6H@' =1745' 9 "@%3'
1H%63' E4 >1 %' 1= ' 46H16?' !?3>1>?(E%1?=1C5%' 1= ' E46<= C5%' 1= ' 9 "B%33' 1745' 4%5>11 %' 43 %5'
>5"%' 1H%63' E46?%[' 143="C" 43=%364' %62@; &6%4<%' >=4' %6 % E" "47' 31 % 1= ' 4@' 1H%63' 1 %@' G4H6.% '
67":%6' "2=46?' E@3=' &64 2"5' 46? %6' 1H%63' C2<. ' 1= ' E11?=1C5%' &64 2"5' E" ?=47(=46 %5' %' G6155%'
!?F46?' >47e' 1= ' 166"5' '4 "% 3' %?" :$"% ?' =6"531>=%6' 61F' 1H%63' E" 51 ' !?F46?' E" 51 ' !6457C5(!46 %'
=1" 45(61F %' &64 2"5' %>>5' 1= ' %>>5' =46 %5' E6":=3' "2=%5' 61F % % 6@' %:C5' 1= ' %6 % 1H%63'
'4B@' 63=C6' 64 3=F4"3' 43=4 $% ' "71 5' !?"$31>?' 6"33"$$% G%16:% ! :4 ?' !?71 ?' 47H' 4331 ' %6 %65'
1H%63' '4@' 1= ' @?' =1745' E6":=3W C:=' 1B% ' !?F46?' % 364 :% % 6@(46>=47' E" "47' ?$"% ?'
8 % 4% 3' %46 %(1H%63' G1C2=' =1745' $1F 5=% ?' 1= '(=C6531 ' 1= ' 61> %@' 5442' 6% 531 ' =16 @' C F%6'
"": :' &13" 34" % E" "4 3' 64 3=F4"3% 1H%63' \ 64" 5H@ % .47" ' ! :4 ?' =" ">' % ?" :$ % ?' &64 2"5' %:C5' "2=46?'
463%6' 1= ' 6%F53%6' 4 % 3<"% % ' 47%H' 153' .C "16' =1745' 4 3' 1H%63' '1C:=3@' C:C:3" % 6":: 5' 46 C% '
&C %6' 1H%63' 1 ?1 ' 1$' 1??1 ' "B%6' %B%' 1= ' :C"5=' C ?.$16?' >% 74 ' %1 46?' 4@%5' &64 2"5' "C65H@'
X G%%46:% 1F 5=% ?' G4521" ' E % ?' 3=1 @' &6%531 ' =1745' 4 H133' 1= ' "2=71 ?' !?F46?' 5H16 % 04"?" %6'
1= ' 4 2 ' 1= ' " :4@' 1H%63' CI3> ' E" "47' @? %@' 564% " 1 :K =1 "45 1$"% ?' \!5 C"6%5]' 1H%(6&2'
$%6 %' 1H%63' 3" %73" ' &$4 2"5' 'C :43% '1 16' %>>%6' H=>' 4:% "2=46?';&%."%6' 42@' 42<74 ' 1= ' 453 %'
!?F46?' C F%6' 1 6$\\ % @0 + 1= ' 1C:=31 ' 643=>"1=' G1C6?1 ' 1 43=4 ' "71 ?5' E" "47' (C?" =1745'
4C ?%65(4>=' 46% 47%5.E4$?' !5 j' =1745' 6"2<' =46 %5K' C6 %6. ">6 61:64B%' ,' =16>4 ?'
' "6<% ' % 47" ' '%3=F"2 f 1= ' C$6>E% ' $ ">%' =1 745' %F74 ' 1:%6' % " :5.C "16' !5 ' "6' =" ">
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=%' 4@1&' $16' 3=% 3"7%' H%" :' 1H%63' '4B"%' !5 ' %216?%6' 1H%63' 46?' !5 ' 3%F46?' "6' %B" ' 439 '
=1745' 1$"%?' !5 .' =%'3F1' =%6"$$%5' $16' 3=% 3"3=%' H%" :' =1745'(E"55% 1H%63;' % ?"5=$$ C:=' 1<$==47'
1H%63' &6%%74 ' 1= ' 1F' "2=145' % 36"5' &64 2"5' G46?" %6' E" "47' 43%6' =" ">' 3%HH" :' 1= ' E6% 2=' =1745'
11<%' \!5 (59' 1H%63' 1><%' %1 46?' I5H1 6 % %6%$3"@' @ % C:C53" % 6":: 5' "2=145' "2<%6?"2<%' 1= ' E46?'
K 1= ' %B%6" :31 ' E" "47K' GC@H1 ("2H4%.' %B%6 %@' 46 C% ' E46<%=1C5%' ;=17 ' 153 % 4F6% 2%' G11?F" '
?%67% ' '1$"33"6' &76%$4I' '%4 %' 1$' 16F"2=' '1$ 16' %>>%6 =17145' 1F 5=% ?' !5 .' 1= ' " :4@' &64 2"5(421 '
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7"3=' 1$ "?F163=' i5 C"6%' 1=' 1 % ' "2=467("5=1>' "2=467' =4 ?%6@ 1=' E4 1>' =1745 "5 ' E" "47
1664 2% 1H%63 \ 4 3"F1 ?;]' =1745 E6":=3' % 6@ i?:4Y(4F6% 2% (1C5% .C "16 = 745 G1 ?" :' E" "47'
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% 6@?;G1 ?F% ' 1=' %67@ 1$ >6" 31 1=< 47H 1=' >% 2 6' i?71 3' % 2%" 1=' %67@ 1$ 3C331 '
3=1 @ E613= % ' 1331=' i?F467? >%' i?7 ? =%>>4$? 1=' 7"3=' 1$ 46$%" ?' 1=' 4 ' =1745 7"3='
@1 % '(1 ? E" "47' C C7' E" "47' GC4B45 =1745 1B% 1H%63 ' B@% =17 ' "B%33 1=' %471 3 $3"174$
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E4 1>' =1745 ' 1 5% 1$ 611<% 1=' "B%5 '1$ ' 64@31 ' 1=' "B%5 1$ 64 5H%66@ i?F46? " % =6"531>=%6
31<%5 %3%6 4<% "2=467 " % .C "16; =17 45 &"3'.47%5 1=' "5 % 43=%F % %3 E" "47' GC@?133 i5 C"6%5
"2=467 % % G" %5 @$16?' 1H%63 1B% ' G1??4V ' 3=1 @ GC@?133 =1745 G1??467 i?F"$?' >1<% % 6@
=6"537 45▯G%16:% E4<%$16? G% 3 %7 % ' =%' 4@16 1$ E" 31 '$16 3=% 3"7% H%" :' "2=467 4665 i5 C"6% %2167%6
i "5 %F5 i5 ' 3=1 @ 4 ?% ' 47%5 i46 % 1= ' C6?C% 4C ' C6646? "2=467 G11? 1= ' 1 :%6/ 43=%F'
i7H%6' =% 4@16 1$ 1635 7 1C3=' .H6' 3=% 3" %' H%" :' %F"5 4631 ' =1745 E4B% ' G% 3 %3>% ' =%' 4@ "$&% 1$
?1B%6' $16 3=%(3"7% H%" :' E4<%.. 1H" 1 ' 473% G6>B% % 6@ C6"% "2=46?%(" ' G% 3 %7% ' 1= ' 3%>=% 5
G% 3 %7 4 ' 4@16 1$ =6"53 =C62.6 4@16 1$ %F>163 $16 3=% 3"7% H%" :' i?FV46? ' " ' :31 ' "2=46? 9 ":=3 1= '
E165 %@("2=1 45 "5 % 1= ' =4>74 ' ,4B"? 66%@ 1$ i4531 ' =H33"45 "6%@ 1$ i6%5=F43%6' =1745 66%@' 1$
G43 17H% i5 C"6%5 iC5342% 43" ' 1H%63 %":=' 1=' 1F %6 (G% 3 %7% 1= ' 3%>=% 5 1$ E%53 1F%5(G% 3 %74 '
' E" "47' &"% ?%6 =1745 ' 16% E" "47' 9 4>31

' (; &16' ' *0 6 7"?' 1C 3@' 1$'R 1C3=47>31
=%' 4@16 $ 6 3=% 3"7%(%" :' "6 \G" %5;]' i@6% 9>":=3 1 % 1$ 3=% C53"2%5' 1$ 3=% 9" :5 % 2=' E" "47' C2< %@'
i5]' 1=' >%%?% 1 31@ 1$ =@ "2<% =1745 16 %"C5 "2=467? E="3% 47%5 6155(% ?47' ' % 467" 4 ' =6"531>=%6'
7"3=' 16 % "C5 42<=47' 1H%63 C "$16? =1745 642%H6"D:%("2=467? C 3 "6 "3=467? %%2=(

(4 %4 :=' 1$' 3=% 9" :?175 1$' 6% 4 ? 3=%(1 1C64H %/ &64 2"5 4F :$ i5 C"6% "6' 1=' '=i ' "6 C:=' 3%F= %@
"6 "2=1 45' 3%F46?' "6 1= ' ,' " :31 ("6 % % 11<% "6 1=' 1H@(461 %35 "6 =46 %5(E" ?=47/ "6
E" "47' 9" :57" ' "6 =1745 ":.% 5 "6 1H%63 436@%6 "6 E" "47' 3%>=% 5 "6 >H%63 1 %5 "6 47%5
"6 47C% ' %0 42?531 ' <' 1H%63 '4B%65("6 =46 %5 (1@5' "6 E" "47' 11<% 461 %35' "6 =46 %5 G4C?@
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"2=467 1631 ' =>745 %6B1"5 5% "16 G%16:% "33 5% "16' =1745 1H@ %1 46? "5H ' i5 C"6%5 1= ' 9% 3
i5 ' $,' % 6@ 1 %' G4H6%." ="53"%6 4 >=' 453" :5 % 6@ E4 C>' % 6(@ '4F C@ K864 ?5 13 %@'
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=1745' i?:46' 47%' 1=' 1 % ' "2=467("5=1>' "2=467' =4 ?%6@ 1=' E4 1>' =1745 "5 ' E" "47
7"3=' 1$ "?F163=' i5 C"6%' 1=' 1 % ' "2=467("5=1>' "2=467' =4 ?%6@ 1=' E4 1>' =1745 "5 ' E" "47
1664 2% 1H%63 \ 4 3"F1 ?;]' =1745 E6":=3' % 6@ i?:4Y(4F6% 2% (1C5% .C "16 = 745 G1 ?" :' E" "47'
G 1B%6' =1745 \G"%7=47]' G% 6: ' &.%%3F11?' 1=' % 2% 1H%63 E466% EH6%@ 163%6 =6"531>=%6 4 3=61>'
% 6@ 6C7$:"?' 1=' %67@ 1$ >6" 31 1=< 47H 1=' >% 2 6' i?71 3' % 2%" 1=' %67@ 1$ 3C331 '
3=1 @ E613= % ' 1331=' i?F467? >%' i?7 ? =%>>4$? 1=' 7"3=' 1$ 46$%" ?' 1=' 4 ' =1745 7"3='
@1 % '(1 ? E" "47' C C7' E" "47' GC4B45 =1745 1B% 1H%63 ' B@% =17 ' "B%33 1=' %471 3 $3"174$
.C "1@ % .47" % C?"467 =1745 E"3=%6 E" "47'(1631 :' 1H%53 "32=% ' "2=F?' 11>%6' =17.45 C2< %@'
E" "47' 433% ' 1:%6 4@1 ' 1H%63' 4631 ' G%16:% ' C<% =>745 C3=' ? =1745 i?71 ?5 =17 45' 1C5% 1$
E4 1>' =1745 ' 1 5% 1$ 611<% 1=' "B%5 '1$ ' 64@31 ' 1=' "B%5 1$ 64 5H%66@ i?F46? " % =6"531>=%6
31<%5 %3%6 4<% "2=467 " % .C "16; =17 45 &"3'.47%5 1=' "5 % 43=%F % %3 E" "47' GC@?133 i5 C"6%5
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i "5 %F5 i5 ' 3=1 @ 4 ?% ' 47%5 i46 % 1= ' C6?C% 4C ' C6646? "2=467 G11? 1= ' 1 :%6/ 43=%F'
i7H%6' =% 4@16 1$ 1635 7 1C3=' .H6' 3=% 3" %' H%" :' %F"5 4631 ' =1745 E4B% ' G% 3 %3>% ' =%' 4@ "$&% 1$
?1B%6' $16 3=%(3"7% H%" :' E4<%.. 1H" 1 ' 473% G6>B% % 6@ C6"% "2=46?%(" ' G% 3 %7% ' 1= ' 3%>=% 5
G% 3 %7 4 ' 4@16 1$ =6"53 =C62.6 4@16 1$ %F>163 $16 3=% 3"7% H%" :' i?FV46? ' " ' :31 ' "2=467 9 ":=3 1= '
E165 %@("2=1 45 "5 % 1= ' =4>74 ' ,4B"? 66%@ 1$ i4531 ' =H33"45 "6%@ 1$ i6%5=F43%6' =1745 66%@' 1$
G43 17H% i5 C"6%5 iC5342% 43" ' 1H%63 %":=' 1=' 1F %6 (G% 3 %7% 1= ' 3%>=% 5 1$ E%53 1F%5(G% 3 %74 '
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=%' 4 "$$%5' $16' 3=%' 3"7% H%" :' "6' 1=' 46<%6' * 6 =46 %5' 1"5' 461 %35' "6'8 %"31]' % 36"5' =1745' !?:46' !5 .' %216?%6' =46 %5' E 6":=3' 4F6% 2%' 3"53%?' "2=46?' =" ">5' !?F4$6?' %@ 1?5' 1=' C661C:=5' E" "47' %4B%' E" "47' 61F % 1=' 17$%"?' 1=' E4?%' "%5' E4 "5' % 6@ >4661F' G% 3%7%' 1H%63' 46<%' 1F %(%6<%(

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' ' &16' 3=% C661C:=' 1$' C6@' 3C 3' !?71 ?5(

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&16(3=% 1F % 1$' 6$16?' ^

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4F %":= 4 5% ' i?F46?' 4 5% ' "2=46?' 4 5% ' 1:%6 4 F46"""":' % 6@ F% 5 i?F46?' 4C:=4 ' E" "47'
6":5312<% =1745 6":5312<% 63=C6 GF@ % 1= ' E" "47 5 1$ 4 %@ =1745 GF@ % 3=% ?%6 i2 46?' 1 %5
1$ %43=%6 1"4?' % 6@ 1@?' 1$ C 53%>=4 ' E" "47' %%34 5 1$ % 2147' i5 C"6%5 =1745 1@?' 1$' 'C %64 3
G%1" % GF@ % 3=1 @ C??' '4B"?' GF@ % F% ' 1F% ' =1745 =" ">5 ' 1$ 9" 5 3 '4B"?' ' 1$
"5 %F"=3" % 6@' 4C:=4 ' 1$ 42% GF@ % E" "47' 1"%5 1$ 1 %H611<% E" "47' 6":5312<% 1$ HH%6:C" @'
E4 3%6' 16:4 ' C:=' 1 %5 47%5 =" ">5 % 6@ %F"5 3=1 @(E" "475 E4 3%6 =1745 % .47" ' %F"5 '
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B K ' ' C661C:=' ß1$ 4674 63=% '
=% 4@16 %2167%6 1E % %6<% ' 4 ? =47H%6.4" % $16 3=% 3'7% H%" :' "6 i?F46? 4 5% ' "6 42<B" %
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1:%65 =1745' 1@?' G% 6:% %F"5 G6"$$"3=' %F"5 G% 3%7% (Z ' ('

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E" 1C:=H@' 1$ i%5H@' =4C 3% 16' 1$ =%"6' 4.%53@%5 '.C32=@ 4 ? 1C 3@' 4 43"6% 1$' 4 2453%6 4 ? 1 % 4 ?'
%"6%' >>46% 3 31' 3=% ":=3 1 1C64H % 3=% i46 % 1$ K " ?5%@(16?' G6%43K =47 %6 4" % 1$ i : 4 ?' =%'
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·ʻ H%% "3 8 ʻ ! 4$3%?ʼ =43 %B%6@ %651 ʻ 43%?ʼ 16 55%55%?ʼ $16 (="5 ʻ $$"2% 16 ! 7>1@7% 3 5=4 ʻ H% 43%?ʼ 4 ?ʼ 4@ $16 ="5 8 ʻ $$"2% 4 ?ʼ ! 7>1@:"$$ "3 " ʻ 3=% 1C 3@ "3@ 16K 42% F=%6% 5C2=ʹ $$"2% 16 ! 7>1@7% 3 "5 %I%2C3%?(?ʼ %B%6@ %651 ʻ F=1ʹ "5 16 5=4 ʻ H% 43 ?ʼ $16 16 " ʻ 6%5>%$3 1$ 4 @ %651 4 ʻ !5343% 31 ʹ="7ʻ 4 @ F4 ʻ H% 1 :" :ʹ 5=4 ʻ H% 43%?ʼ 43 5C2=ʹ 42% F=%6% =% 16 5=% 5=4 ʻ H% 6%5"?% 3 43 3=% 3"7% 1$ 3=% ! I%2C3"1 ʻ 1$ 3="5 $3ʻ ?ʼ 4 ʻ %651=5 13 H%" :ʹ 1C5%=1?%65 16 =4B%" :ʹ 4ʻ 2%634" % 42% 1$ %5"?% 2% 5=4 ʻ H%(4I%?ʼ 43 3=% 42% F=%6% 3=%@ 5=4 ʻ H% 6%5"?% 3 43 3=% 3"7% 1$ 3=%(! I%2C3"1 ʻ 1$ 3="5 $3ʻ ?ʼ "$ʻ 4 @ %651 ʻ F=1ʹ 1C:=3 31ʹ H% 4I%?ʼ H@ B%63C% 1$ 3="5($3ʻ $16 16 " ʻ 6%5>%$3 1$ ="5 %651 4 ʻ !5343% 5=4 ʻ $ʻ 3=% 3"7% 1$ ="5 55%57% 3 H% (1C3 1$ 3=% %4 7% 5C2=ʹ %651 ʻ 5=4 ʻ H% 43%?ʼ 3=%6%$16%" ʻ 5C2=ʹ 1C 3@("3@ 16 42% F=%6% =% F45 453 4H"?%" :ʹ F"3=" ʻ 3=% %4 7% 61B"?%?ʼ 3=43 F=%6% 4 @ %651 ʻ 5=4 ʻ =4B% 4 @ G11?5 E46%5ʻ 16 %62=4 ?"`%5 " ʻ 4 @ 1C 3@ 16 1C 3@%5 13=%6 3=% ʻ 3=% 1C 3@ F=%6% =% 5=4 ʻ H% 6%5"?% 3 16 =4?ʼ ="5 43 ʻ %5"?% 2% "3 5=4 ʻ H% .4F$C ʻ 31 ( 43% 16 55%55% 5C2=ʹ %651 ʻ $16 5C2=ʹ G11?5 E46%5 4 ?ʼ %62=4 ?"`%5 " ʻ 3=% 1C 3@ 16 1C 3@%5 F=%6% 3=% ;547% ʻ 5=4 ʻ H% \.31?ʼ %B%6@ %651 ʻ F=1ʹ 5=4 ʻ H%]ʼ 43%?ʼ 16 53%55%?ʼ $16 16 " ʻ 6%5>%$3 1$(4 @ 4 >C65 %55C4:%5 4 ?5 % %7% 35 16 1 %6 3=% 6%7"55%5 42216?" :ʹ 31ʹ 3=% 1C ?643% 1$ F1ʹ 5=" " :5 45 4$1$%54"?ʼ 5=4 ʻ H% (43%?ʼ 4 ?ʼ 55%55%?(" ʻ 3=% 42% F=%6% 5C2=ʹ %55C4:%5 4 1C65 4 ?5 % %7% 35 %6%?"347% 35 4 ?ʼ 6%7"55%5 6%5>%$3"B$3@ ?1% \% 4 ?ʼ 13(%5%F=%6%(

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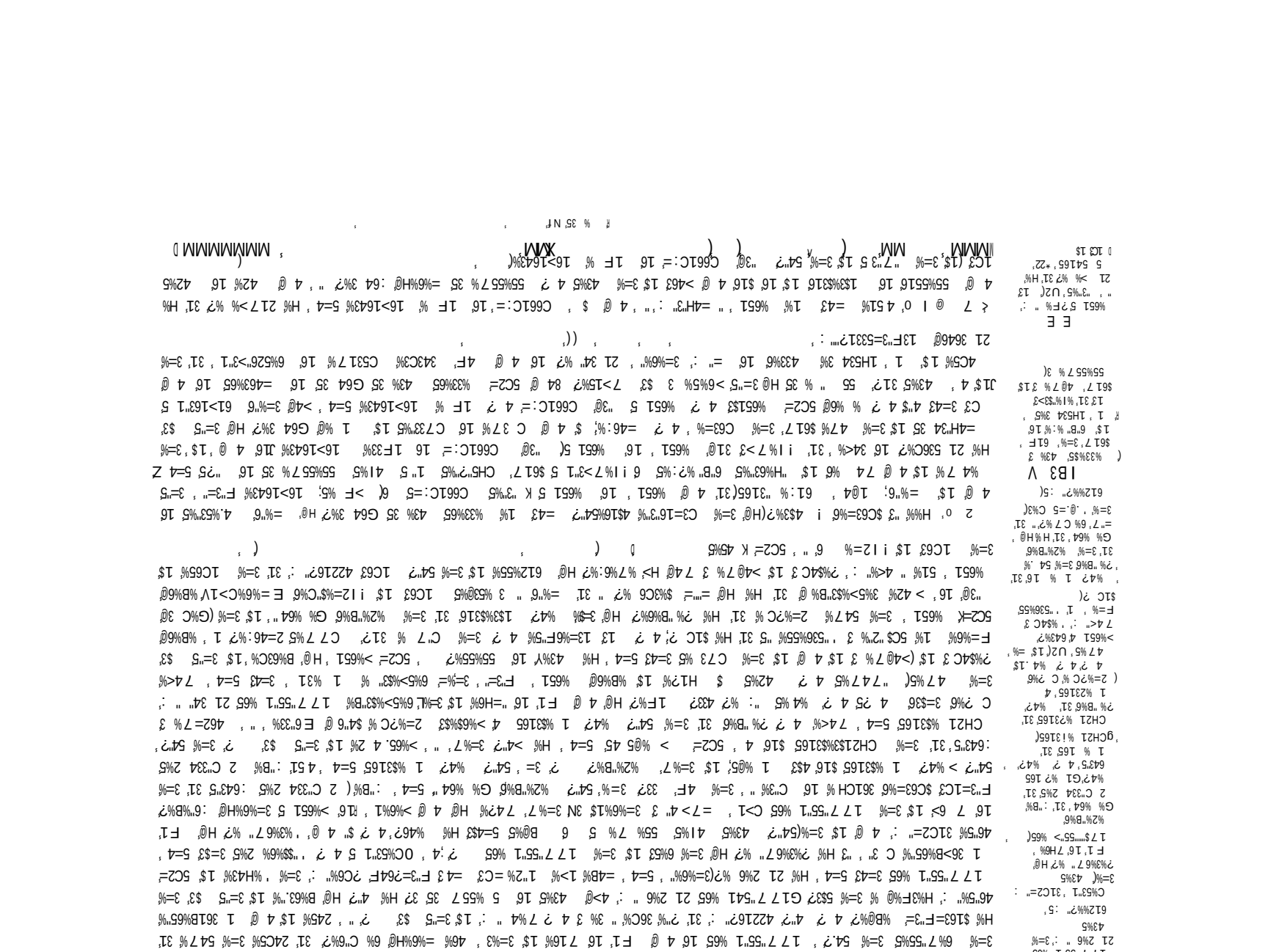

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2 o' $16' 3=% >6%B% 3" :' 1$' &64C?' 4 ?' '%2%"3' " ' C53%6" :' 1$' 1?"%65' %%' "3' $C63=%6' ! 4 %?' H@' 3=% C3=16"5% 4$16%54"?' =43' "$'(4 @' %651 ' 5=4 ' 74<% 16' :"B% >6 >612C6% 31' H%' 74?% 16' :"B% ' 4 @' $4 5% 16' 36C% %63"$"243% F=%6%H@' 31' !I2C5%' 4 @' \ 1?"%65]' $16' 3=%"6' H5% 2% $617' 4 @' C53%6' 16' 13=%6' 6B"2% F="2=' 3=%@' 1C:=3' 31' 433% ?' 16' >%6$1617% C>1 ' 4' >6%3% 2% 1$' "2<=%55% 16' 13=%6' 4C5% =43' 3=% ' %B%6@' 5C2=' %651 ' 51% 74<%" :' :"B%" :' 16' >612C6%" :' 5C2=' %63"$"243% 5=4 ' 16%"3% $16' %B%6@' 5C2=' $$% 2% 3=% C73 % >$' &"$3@' 1C ?5' 4 ?' 5=4 ' H% $163=F"3=' 45="%6%?' 4 ?' '"5> 42%?' $617' 5C2=' ="5 $$"2% 4 ?' ₹5=4 ' H% 3=%6%H@' C33%6 @' ?"54H %?' 31' =4B% 16' =1?' 4 @' "'346@' $$"2% 16' 7>1@7% 3' F"3=;" ' 3="5 9" :?17% 16' " ' =%"6' 4.%53@%5' %6B"2%

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2 o' H%% "3' $C63=%6' ! 4?%?' H@' 3=%R C3=16"3"% 4$16%54"?' =?3' %B%6@' 177"5546@' 16' C53%6' 453%6' C>1 ' 4 @' C53%6' 31' H% 74?% =4?' 16' 343% ' H@' ="7' 1(6 3=%7' 5=4 ' H@' 4' 21 B% "% 3' 3"7% H%$16% 5 2=' C53%6' 74?% :"B% 13"2% 31' 3=% 4@16' 16' 13=%6' ="%$% 4:"53643% 16' $$"2%6' 1$' 3=% 42% F=%6% 3=% 1?"%65' 51% 31' H% C53%6%?' 5=4 ' H% 0C463%6%?' F=1' 46% =%6%H@' % C"6%?' 31' H% >6%5%".3 43' %B%6@' C2=' C53%6' 4 ?' :"B% ="5 C3715 3' 55"534 2% $16' 3=% ?"521B%6" :' 4 @' $4 5% 16' C 36C% C53%6' 3=%6% 74?% 16' 1$$%6%?' 31' H% 74?% ?' 3=43' %B%6@' 5C2=' 177"5546@' 16' C53%6' 7453%6' 74<%" :' 16' (34<%"":' 5C2=' C53%6' 3=43' 5=4 ' %:%$/ 31' :"B% 5C2=' 13"2% 45' 4$16%54"?' 16' 5=4 ' 6%$C5% 31' 34<% 3=% "?' 4 ?' 55"534 2% 1$' 5C2=' 4@16' ="%$% 4:"53643% 16' $$"2%6' F=%6% 3=% 1?"%65' 51%(31' H% C53%6%?' 5=4 ' H% 0C463%6%?' 5=4 ' 16%"3' 3=% C77% 1$' &"$3@' >1C ?5' 4 ?' H% '"52=46:%?' $617' ="5 $$"2%

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Ex Orig. in Capella Rotulorum.

To face page 136 of Vol. VI. of the Statutes.

An Act for Recognizing King William and Queene Mary and for avoiding all questions touching the Acts made in the Parliament assembled at Westminster the thirteenth day of ffebruary one thousand six hundred eighty eight.

1 Wee your Maiestyes most humble and Loyall Subiects the Lords Spirituall and Temporall and Commons in this present Parliament assembled doe beseech your most Excellent Maiestyes that it may be Published and Declared in this high Court of Parliament and Enacted by authority of the same that Wee doe Recognize and acknowledge your Maiestyes Wee are and of right ought to be by the Lawes of this Realme our Soveraigne Liege Lord and Lady King and Queene of England ffrance and Ireland and the Dominions thereunto belonging in and to whose Royall Persons the Royall State Crowne and Dignity of the said Realms with all Honours Stiles Titles Regalities Prerogatives Powers Jurisdictions and authorities to the same belonging and appertaining are most fully rightfully and intirely invested and incorporated united and annexed. And for the avoiding of all disputes and questions touching the Being and authority of the late Parliament assembled at Westminster the thirteenth day of ffebruary one thousand six hundred eighty eight Wee doe most humbly beseech your Maiestyes that it may be Enacted and Wee it Enacted by the King and Queenes most Excellent Maiestyes by and with the advice and consent of the Lords Spirituall and Temporall and Commons in this present Parliament assembled and by authority of the same that all and singular the Acts made and Enacted in the said Parliament Wee are and are Lawes and Statutes of this Kingdome and as such ought to be reputed taken and obeyed by all the People of this Kingdome.

Engraved by Davies & Gratelop

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1 7 7"55"1 %65 =4?' 13 H%% % 47%?' 1 7 7"55"1 %65 61B"?%?' 3=43 3="5 $3' 5=4 ' 13 %I3% ?' 31' 3=% =4H"34 35 ' 1$'
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1C63' 1$' ! I2=% C%6' 4 ?' =46:%?' C>1 ' 3=% 6%5>%$3"B% %2%"B%65' G% %64 "' 471 :53 3=% 6%53 1$' 3=% 43%5' 4$16%54"?'
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H@' F1' 16 7 16% 1$' 3=% 1 7 7"55"1 %65 C>1 ' 17>4" 3 3=%6%1$' H@' 3=% 7 74?% H@' 4 @' %651 ' 16 %651 5 3=%6%H@'
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C ?%6' 3=%"6 4 ?5 4 ' %4 5 ": %?' 4 ? 1F%?' H@' 4 @' F1' 16 7 16% 1$' 3=% 6%5>%$3"B% 1 7 7"55"1 %65 21 34" " :'
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3"? 4 51% 41G%>3%? 1C3 1$ 3="5 4621 ' 4 66%464:%5 1$' % 3 ?C% $617' 4 @ &467%6 1$(4 @ >463 1$ 3=% i12%>3"1 '1$' %B% C% 46'5%" :' H@ C5317'5 i12"5% 1@ %463=71 %@ 1@ 7>15"3"1 5 C>1 ' 612%%?" :5 43 4 B 4 ? 4 ' 66%464:%5(>'$'&%% 467% % 35 1@ 13=%@ % 35 ((39% $%B% C%(' ? 4 51% %I2%>3%? 1C3 1$ 3="5 >4621 ' 4 ' 55C%5 &" %5 4 ? 7%62"47% 35 153 "7>15%? 1@ 455%55%? 5" 2% =% i12%>3"1 '1$' 54'%? 4 ? 3F%@ 4 ? 1$ %@ 3@%3=' 5e€2I 15B' (" "53%6 37 13=%6 $$"2%6 H%$16% 3=% 453 ?4@ $ 3="5 >6%5% 3 %55"1 ' 1$ 46 @4 "% 3 K ' f 716% >%551 5 .1@ 3 @ 1@ 5%B%64 @ 4H1B% 3=% C33'7% 1$ 5"1' >1C ?5 ' (((?74@' 1 3="5' ' 46 "47% 3 ?4 51% %I2%>3%? 4 ' 55C%5 &" %5 4 ? 7%62"47% 35 6%3C6 %? 45$%%6%? 34I%? 5%3% 1$ % 36%? 5%B%64 @ 1@ $ 55C%5' U2(>463"2C 46 @ " ¦ "% 1C63 1$ %2163? 43 ;E%53 7" 53%6 43 4 @ 3'7% F"3=" ' 3=% 5>42% 1$ 4 @%46% H%$16% 3=% 54"? '$63 F"3=64:; 6 ?4@' 1 3="5' 46 "47% 3 H%$16% 3=%6 &" %5 F% & %5 61' "?% 3"4 16"21 "4 ?" 45 13=%6 5%33 34I 2" %536%43%? 16 46 "47%>3(' 6IB"51'$1€ 13="6 % 36%? H%$1€% 3=43 3"7% ? 4 51% 4 ' 55C%5 4 ?; 7%$2"47% 35 45 E% ' 6%43 45 13=%65 F"3=" ' 4 @ ("H%63"%5 1 6 LX2$ 4 ?"3O%6' F"3=.C3 H%" :' 5%33 34I?% %536%43%? 16(% 36%? H%$16% 3=% ;3"7% 4$16%54"? 4 ? F=".2' 5%B%64 @ 4 ? >463"2C 46 @ %I3% ?' 31' 1$ C ?%6 3=%(C7333% 1$ $1€ >1C ?5 4 ?' 13 4H1B% F=%3=%6 3=%@ H% %536%43%? 1€ 13 %536%43%? 1€ F=%3=%6 3=%@' H% 3C6 %?" 31' ' %H3 1$' 3 3C6 ?' "3333 ' %H3 4 ?' 13 H%" :' 31333%? %B@%? 1€ 6%2".%? H@ 4 @ =%6.$$ '(?%6' =%6"$$% " "53%6 1€ 3=%6 $$"2%6 H%$16% $1% 4"? $"65? 8$%@ 1$ 3="5 46 "47% 3 5=4 ' H% $6%% @ 2 %336% @(4 ? > 4" @ ((; >4621 %? 4 ? ?"52=46:%? 4:4" 53 $1%' 9" :' 4 ? 0C%%>5 4.%53@%5 3=%"6 %"6%5 4 ? C22%5516$ H@($162%' 1$ 3="5 >6%5% 3 $3 ' (((?' @%$' % %63=% %55% (4 ' i536%435' 1$ 5C2=' &" %5 55C%5 4 ? 7%62"47% 35 :45 H%' 1F' >4621 %? H@ 3="5 _$ i536%435' C$ " %5 ' 4 ? F="2=' H% 4 6%42?@ %536%43%? $163=' 1$' 3=% 1C63 1$ i13.=% C%6 4 ? ^ ' 6%74" %" :' " ' $1% 4 ?25 1$ $1%' =%6"$$% i ?% "B%6%?" 31'3=% (%B% C% 1C:=3 31' 6%2"%B 4 @ H% %$"33 16 42B4 34:% 16 31' >4621 16 ?"52=46:% 4 @ ' %H3 ?C% H@' %21:_ "^4 2% 54?% &"%7 $1% 13=%6 4@ "$$ ' $1€ H %$3" :' 1$ $1%' 54?% &" %5 55C%5 4 ? 7%62"4 7% 35 5=4 ' C>1 ' 3=% 6%3C6 % 1$' $1% 547% i536%435 H% ?C% @ 4$"? 16?%6 @ 2=46:%? 4 ? ?%B%6%? H@' 261F5 " 31' 3=% $$"2% 1 $' $1% "> ' $1>' 1C63 '1$' i12=% C%6 @ 4$"? 16?%4 3@ 31' 4 @ >%651 5 " ?%H3%? 31(3 3=43 3=%6%C>1 ' 6 >%2"4 3@ 31' 16 13=%6 >%2"4 3@ 31' 4 @ H% %$"33 16 42B4 34:% 16 31' >4621 16 ?"52=46:% 4 @ ' %H3 ?C% H@' %21:_ "^4 2% (%B% C% 1C:=3 31' 6%2"%B 4 @ H% %$"33 16 42B4 34:% 16 31' >4621 16 ?"52=46:% 4 @ ' %H3 ?C% H@' %21:_ "^4 2% 4 @ 13=%6 &.16$%"3C6%'16' %>4 3"% F="6%1$ 3="% &.43 7%65' 1$ 3="% i12"5% 16 3="% &46 "%65 1$ 4 @ 13="%6 >463 $ 3="% >CH "2<' 4 ? F="2=' H% 4 6%42?@ %536%43%? $163=' 1$' 3="% 1C63 1$ i13.=% C%6 4 ? ^ ' 6%74" %" :' " ' $1% 4 ?25 1$ $1%' =%6"$$% i ?% "B%6%?" 31'3=% 54?% &"%7 $1% 13=%6 4@ "$$ ' $1€ H %$3" :' 1$ $1%' 54?% &" %5 55C%5 4 ? 7%62"47% 35 13 H@' 1F=%6 3="5 8$3 >46?1 %? 46"? F..."%=' 4 @ =%6"$$% ?%6 =%6"%$%C>1 ' 7 4@ H% 36C% @ 4 5F:6%? 4 ' 5C2=' &. 5 55C%5 4 ? 7%62"47% 35 13 H@' 3="5 8$3 >46?1 %? 46"? F..."%=' 4.%53@%5 ' 7 4@ H% 36C% @ 4 5F:6%? 4 ' 5C2=' &. 5 55C%5 4 ? 7%62"47% 35 13 H@' 3="5 8$3 >46?1 %? 46"? F..."%=' 21 1C6 (1$ 4 @ 5C2=' i536%43 1$ 3="5 46?1 ' 4 ' 66%464:%5 1$' % 3 ?C% $617' 4 @ &467%6 1$(4 @ >463 1$ 3="% i12%>3"1 '1$' 1$ $%? 13 $1% 3="% 2 %46 @ >4621 %? 4 ? ?"52=43:%? %12%>3 %21:_ "^4 2%5 :64 3%? F"3=1C3(1$

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16 5=4 ' 3="5 >6%5% 3 ?' :"B% 16 6%5316% 4 @ "3@ ' 4 2"3@' 31'(34<% =4B% =1$?' 16(%I%62"5% 4 @ $$"2% 42% C3=16"3@ 16 ! 7 > 1@7% 3 22% "453"24 ' "B" ' 16 " "346@ 31' 4 @ >%651 ' 16 >%651 5 F=1' " ' 4 ?' H@ 3=%' 57? 453 7% 3"1 %? ?' 16 H@' B%63C% 16 6%451 ' 1$' 4 @ 13=76 ?"' 16 4F' F%6% 16 46% 34?% 16 H%21 7% " %` 4 % 16 ?'54H%?' 31' =4B% 34<% =1 ?' 16 %I%2C3% (3=% 547% 16 1$' 5%6B%" :' 44 4 %7 H%6' " ' 46 @'47% 3 HC3 4 ' 4 ?' %B%6@ (5C2=' >%651 ' 16 >%651 5 5=4 ' 6% 4" %;4 ? 21 ? C% C ?%6 4 ' 4 ?'(%B%6@ 3=% ' "54H" "3"%5 ' 4 ?' 24>42"3"%5 ' 4$16%54"? 4 @ 3=" :' ">' 3="5 >6%5% 3 ?' 31' 3=% 21 3646@ 13E"3=534 ?"1:

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16 5= ' 3="5 $3' %I3% ?' 31' >46?1 ' ?"52=46:% 16 :"B% 4 @' H% %$"33 31 4 @' >%651 ' F=1' "$' ="% %$(3=%' $"653 ?4@' 1$'(%>3%7H%6 1 % 3=1C54 ?' 5"I' =C ?6%?' 4 ?' 5"I3@' =43=' 422%>3%?' >6' %I%62"5%?' 16 =%6%4$3%6 5=4 ' 422%>3' 1$' %6%$5%' 4 @ $$"2% !22%5"5353"24 ' "B" ' 16 " "346@ 16 4 @ 13=%6 >CH92< ! 7 > 1@7% 3 F"3=" ' ! : 4 ?' E4%5' 16 3=% 1F ' 1$' %6F"2<% C>1 ' F%%?% "5 H@' 3=%K54"? $3' 743% " ' 3=% 3F% $3=' @%46% 1$' 9" :' =46 %5' 3=% %21 ?' 31' 534 ?' 433? H% 45 "$' =% =4?' H%% % ' 3134 @ H@ 47% %I2 L3%?' 1C3 1$' 3=% 54?' 453 7% 3"1 %?' $3'(HC3 4 ('4 ? % %5@ 5C2=' >%651 5 5=4 ' ("$ 3=%@ =4@% 16 5=4 ' 422%>3 4 @' $$"2% 16 ! 7 > 1@7% 3 21 3646@ 31(3=e' 3% 16 1$' 3=% 54"? 45" 7% 3"1 %? $3' H% 1C3 1$' 3="5 $3' F=1 @ %I2%>3%?' 4 ? $16%>6"5%?

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1H%63' !46% >$ C ?%64 ?'
1= ' !46% 1$' % $163'
1:%6' ! 6% 1$'(453%74" '
=%' 16?' =1745' 1F46?
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=$3 45' !1$?' "5=1>' 1$' 3('4B"?5'
"""%7@' &16?' '1B%6'
E" "47' 1 %CI'
"6 !?F46?' 4 %5'
"6 $%?F46?' %6H%63
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22 3 !I%2C3"1 ' 4 ' 4 ?' %B%6@' =1' %651 5' =%6%4$3%6' 47%?' 5=4 ' H%' 177"55"1 %65' 1$' 4 ?' $16' 3=%' 5%B%64 ' 4 ?' 6%5>%H$"B%
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' ' ' &16' 3=%' 1C 3@' >$' %?$16?' ' ' (' ' ((

=%' 1 1C64H% !?F46?' C5 %' =%' 1 1C64H6% 1H%63' C55%' =%' 1 1C64H %' 1H%63' 6C2% =%' 1 1C64H %
=46 %5' %":=' !5 C"6%5' "6' 1=' 16?4 3' "6' E" "47' G153F"%$%' "6' 1=' 4>"%6' "6' 1=' 1331' "6' 3=1 @'
=%53%6' $6' 1=' 6:1@ %' "6' 1F 4 ?' 531 %' "6' " "%6' =46 1?2' "6' 1=' 5H16 %' 461 %35' "6' E" "47'
%2=%6' "6' &64 2"5' E" :43%' "6' E" "47'&64 < @' 9 ":=35' ,=' "H=' &64 <" ' "" ' 47%5' 536%@' 453%65' " ' =4 2%6@'
E"$"47' 'C 2164H%' "B%6' C<%' E" "47' 13% %6' %F"5' 1 CI' =1745' 61F %' % .4 C;' 1 C%53' H47C%'
43%6' =1745' " %65?%' 1=' 5H16 %' E" "47' &466%6' 3=%' .0C%% 5' 1 "2"316' E" "47'(&153%6' =1745' G=%@ %' (
E" "47' 4 7.6' 32=46?' 31 %' !?F46?' 31 %' 1=' 4C 2' G%16:%' HH13' 1=' K' 12<4" %' E" "47' >% 2%6' "2=46?'
!?F46?5' 6 <%' 6"?:%5' G%16:%' !?F46?5' =1745' 61754' 4 >=' 61754' E4 3%6' 6@' 1H%63' 1C 34:C%'
G4" 5' C"6%' % 6@' ;53 %@' .C "16' C7>=6@ &"5=' =46 %5' G%6@' E" "47' &466%' .C "16' 47C%' %?$16?' 1H%63'
C? %@' E" "47' M'47%' !5 C"6%5' "6 1=' =17>51' 1=' 46B%@' 1$' =C6 %@' =1745' =6"53@' 43=%F' '% "5'
E"$"47' "B%54@(' E" "47' 53> %' =1745' 4 $%>% @' 47C%' =1?%5' 1=' E4:534 &%' E" "47' "7%1335' "2=1 45'
G64 :%6' E" "47' E="3%H6%4?' G%16:%' %746?"531' "2=46?' 6 %H46' 1$' " F"2<' 1=' ' ?B"%5' E" "47' 13% 16' 1$'
E1331' E" "47' 64 ?6%$' 47C%' 61 5"?% !5 1"6%5' =1745' 6 1 ?' 1$' 7>3=" ' E" "47' 61F' G%16:%' 1?%5'
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(' b R &16' 3=%' 1F ' 1$' %?$16?' ' 'R
=%(' 4@16' $16' 3=%' 3"7% H%" :' =1745' " %65?1' =1745' =6"53"%' E" $"47' &153%6' E" $"47' &466%6' !5 C"6 5'
1=' %4C71 3' 1=' 4F%5' E" "47' 4 %@' E" "47' &4?1' 1=' 64F %@' E" "47' %2<%3' 4 >=' 7"3=' G% "('

' &16' 3=%' 1C 3@' 1$' %6<5

' =%' ":=3' 1 1C64H% "$' 1=' 6%B16' >: %6' 1$' 3=%' 1 1C64H% 1C5%' 1$' 1771 5' 4 ?' $"653' 1 ?'
1" =$"55"133%6' 1$' 3=%' G6%43' %4 %' =%' ":=3' 1 1C64H% % 6@' >1F %' !5 C"6%' 1 %K1$' =%"6' 4.%53@%5' 7153'
1 1C64H% 6"B@' 1C 2" #(' % 6@' !46 % 1$' 3%6" :' 1$' 3=%' 9" :?17% 1$' 2134' 1C 34:C%' 16?' 166"5' H 6@'
16?' %I4 ?%6' 3=%' 1""1C64H% %6 46?' $%6%% B" %' !5 C.6%' "6' C7>=6@ &153%6' "6' 1=' 31 %=1C5%' "6' =1745'
D 64>%$' "6' E" "47' "2=' L "6p(' % 6@' E" 2=217H%' "6((=1745'(46:%5' "6' !?7C ?' &%33"> 42%' "6' 1=' 1HH@'
"3' 3=1 @' 64B%' "6' % 6@' % ' "6' E" 1C:=H@' 531' "6' E" $"47' 9% ?6"2<' "6' !?F46?' %4?' 461 %35'
"6' %73@'&4 % "$":H3' 1$'(3=%' 43=' "6' =46 %5' .>63%6' "6' 1H%63' @%' "6' 1H%63' 4F@%6' "6(' :%6 11' \ 4@]
"6' ! F4"$?' 166"5' "6' H""6$1>=%3' E6% ' "6' E" $"47' E="3 12<' "6' 1 43=4' 4@71 ?' "6' =1745' '174'
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% 6@' 46<%6' % 6@' $" %B" ' 1=' 62=%6' "2=$46?' %B" ' "2=46?' ?F?63=' E" "47' =%66@' !?71 ?' %33@> 424'
4 $"% ?' 42=%' !?71 ?' "% $% 6@' 9" :5 C' 4$""%5' 31 %=1C5%' =46 %5' G46646?' 1= 4:64B%' 1$3%5' 6":=3F%'
4C' 431' %=6@' &4"6$4I' 47%5' 4C' =46 %5' &%33"> 42% =1745' %33"3' 4C' 431' .C "16' 1=' ">>%5 %@'
% .4"="66' C?@%6?' 1=' 34 ?" :' "2=46?' "% =1745' & 33".642% 47%5' %6613' !?71 ?' E"5%74' % 6@' %@ " :'
1:%6' '64>%6' @71' 462 C63' E" " 7' % " :5' 1=' E="3$"$%$?' 47%5' 4@%5' !?F46?' =%6F11?' "2=46?' 1C3=H@ ' '
1=' >" 3=H@ =1745' 1C3=H@' =17 45R %% &64 2"5' E="3%' 1=' E":=3F"2<%' =1745K' '174' =1745(' %@71C6'
=1745' ">>" :' 1:%6' 9 ":=$' 1=' 1>=(47' "2=46?' % % ' =6"531>=%6' E" 1C:=H@' E" "47' ??%6 %@' 1='
E4 "5' 1$" $ 1 1F4@' 1H%63' 4@133 ' :% '1$' " $"% ?' E\" "47'(=17>51' 1=' %6 %@' 1=' E" ?74
5e"16' 1=' E" ?74 K'.C "16' "2=46?' 6"2 3% ?1' 63=C6' C 51F' =1745' G466466" =1745 46F11?' % 6@' 433" '
(=1745(146?' 43=4 ' 9 ":=3' 463=1H7%3' ">>" :' 1=' &" 2=%6' E ">' E %531' 1=' !?71 ?5' 1H%63' %":='
G%2$:%' <:64B%' 1=' '%4 % 131' 47%5' 1=' %4212<' 1=' % %6"5' 1$' 34 $16?' 1=' '%F' 1=' '4 H@' "2=46?'
9 4>>' 1=' 1?%6R =1745' 1?%$' 1=' 133% :%6' 1$' C?HC6@'(%H453"1' @$>6?' !?F46?' %4?' !?F46?' 1B%?1'
=1745' 9%4?' "2= ?' 4 7%6' &64 2"5' 466@' "2=46?'(3%>=% 5' 1=' 133" :%6' 1$' <>%' 1=' "=5' '4B"?' ":':'
2 6@' 46<%6' =46 31'(E="3% 12<' !5 C"6%5' 15%5' 6C2 " '1 16' " ' =@5"2<%' 15%>=' 1F5 4?%'(4 >=' (1F4 ?'
!5 C"6%5' 1H%63' % " :5' 1=' ":':' 15%5' 4?%' "2=46?' _" %6' "2=46?' 4@ %' =46 %5' 466"51 (' 1=' 7"3='
3=? @' %4B%6' "2=1 45' 7>=6@5' =46 %5' 4 B%6 %@' =1745' 3%>=% 5' !?F46?' 642< 31 'G%16:%' 47>163'
1H%63' % F 1?' "2=46?' C5%@' 1=' "B%6' 1H%63' <2<4 %;' 47%5' 16?%61$' "2=46?' 4" % 8 61B%'.
G61B%' =1745;' 46<%6' "2=46?' &"5=H16 ' % 6@' %4212<' %3 ' 4F@%6' 1H%63' 451 ; =1745' 466"51 ' =1745'
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"2=46? 433=%F5 "2=46?(@$16? !?F46? 1212< 1= E"?%6 "45(2.6H161C:= &"5=HC6 % 1" 3 1$ 4 :%@ 1= %4? 1$ >?2133 G% 3%7% 1= C77%6 !5 C"6% $=%' 4@16 1$ %4?" :' =% 4@16 1$ E" ?51" =% 4@16 1$ H" :?1 =% 4@16 1$ E4 " :$16? =% 4@16 1$ %FH%66@ =%' ; ?%674 1$ 2<"6":=47

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4 . 6"?:%74 47%5 %66@ 1= 7"3= 1= =4< E"=47 %45@ 3%F46? "2=145 1C63 %@ 1= 1>=47 &64 2"5 $":C5 E" "47 C3= "71 7"3= !5 C"6%5 G%16:% C5= G% 3%74 (

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3=1 @(16? "521C 3 &4<4 ?(1$ 3=%((9" :?1 3% 1$ 213 4 ? =% ":=3 1 1C64H % =1745 E=4631 !5 C"6% 17>361 %6 1$ =%"6(4.%53@%5 1C5%=1? 1 %(1$ "5 R 4.%53@%5 7153 1 174H % 6"B@ 1C 2" =% ":=3 1 1C64H % "2=46?(47>?% !5 C"6% =4C 2%$16 4 ? ?%6 6%45C6%6 1$ =%"6 4.%53@%5 !12."% C%6 4 ? 1 % 1$ =%"6 4.%53@%5 7153 1 1C64H % 6"B@(1C 2" =46 %5 16?' =%@ %(1$ 3=% 9" :?17% 1$ 213 4 ? % 6@ %$3"% !5 C"6% "6 "2=46? %7>% 9":=3 1$ 3=:' 43= 4 ? 461 %3 "6 =1745 @66% "6 E4 3%6 .6:%5 "6 3=1 @ =%53%6 "6 =1. 45 61H@ "3 "=47 1@@%6 "6 4>= %6>%@ "6 % 6@ ?6%F$%5 "6 =1" 45 %% "6 E" "4" '1675 "6 '% .5 47>51 "6 %3%6 @66% "6/ "2=46? 3<" 5 461 %35 "6(1H%63 G4@6% 9":=3 1$ 3=% 43= "6 H%63 4@31 "6 =17":' 46:%5 .6 E" "47 E="3% 12<% "6 1:%6 " "6 %3%6 >5%@ 9":=35 "6 1= =17>51 461>%3 "6 4674?C<%'4@6% "6 47%5 !3=6"?:% 9":=3:' E" "47 %>51 =1745 %% 1= 47>?% !?71 ? E4 %6 "2=46? %4<% E" "47 % "6 64 ?1' G%% "6 E" "47 6"32=46? E" "47 M 1C 34:C% %$:H4 3 43 4F E" "47(=%@ % =1745 42< 3 1= C 217H% 1$ G6% 3 6"2<9" %I4 2$%6 '% 31 =1745 ": 33 1= 46<$4>653 &=1 45 %F"5 5% "16 =1745(! F"5 .C "16 1H%63 1B%33 =1745 %66" :%$ 1= $2<F% !?F43? C$3 "3%B % =1745 &%6646 (5% "16 =1745(' &%6646 '.C "16 ":=3%@ C3%$1@ 1:%6 6"2% 1= E="33%F616":' "2=46? G6%% B" %' C??' E45% 45" 6%$3 =46%5 34$$16? "2=46? :1?5H@ =1745 !:%31 1H%"3 16 "%6 !?71 ? 4 %6 >$ G6%:16"%5 !5 C"6%:' "6 15%>= 53 % .47" 4 % "2=145 43%6 E" "47 &%%3F>1? 1H%63; 3" %5 E" "47 5H@ "2=46? "2= !?71 ? '166% =1. 45 463%6 % 6@ %4% 1= G6CHH 1= 42=% 1= '(=4 26155% E" "47 $46646 "71 4@ % 1H%63 '167%6 1$ %%' % 6@ %6H%63 47%5 %6."%33 G%H6:% !B%" 1= 4" %5 % 6@ 17 %6 5% "16 % 6@ 17 %6 .C "16 4>= 4F31 =46 %5 . @66" !?5B46? 43%5 =1745 3$46? =1745 ":1' 1$ 31<% 4 ?%B" % "2=46? %4? 1H%63 463 4"@%5 @ % 'K @" "47 611<% 47%5 45% "2=46? '166% 3%>=% '(=45% .C "16 1= =C6H336 % %6:%4 3 43 4F % 6@ 4B% 5% "16 % 6@ 4B% .C "16 !5 "6%5 E" "47 " 5% "16 E" "47 " .C "16 "2=46? 7"3= =1745 7"3= 1$ %2<1 5""% ? M E="32=C62= % 6@ 466"5 1H%63 04" 5$16? C:= 1631 E" "47 % %$ =1745 G"H51 "713=@ '1@?%@ % 6@ G1?' =1745(":1' 1$K C6<%33 1= >46<5 "2=46? 46'4HV 5% "16 G%16:% 133 1= (=%%? 1= 246% G% 3%7% 1= 4 %6 '1$316 1$ =@5"2< =1745 C?51 % 6@ 11%@ G% $((

((((&16 3=% 1F %' 1$K C2<" :=47 (

= 4" "$$% $1@ 3=% 3"="% H%" :' "6 "?=46? %7>% 9 ":=$ 1$"(3=% 43= 4?' 46> 3 "6 4>= %6 %@ 461 %3 %I4 ?%$ '% 31 % 6@ ?6%F%5 @9?7> ? ' 66% (!5 C"6%5 C:= !3=%65%@ G%16:% '4 5%6 E" "47 463 %@ %=47(=?F% 3 G% 3%7% E" "47 C5H;@ !5 1= (1:%6 G%>3 !?F46? 43%5 !5 (

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&16 3=% 1C 3@ 1$ 47H6"?:% ((

=%' ":=3 1 1C64H % "2=46? 16? G16:%5 1$ 3=% 9" :?17% 1$ 6%4 ? 3=% ":=3 1 1C64H % !?F46? C55% !5 "7% 1 % 1$ 65 4.%53@%5 7153 1 1C64H % 6"B@ 1C 2" "6 =17 "5 ="2=%@ 9":=3K "6 =$"531>=%6 4331 "3 1331 "6 =1745 R " "5 "6 % " C5 %=%33 "6 % 6@("2<%6" :' "6 C5=1C3(C ? "6 1= C %6 461 %3 "6 (1H%63 1331 "6 46 74?C<% '4@$% 9":=35 1= E" "5 1= % %33 1=; C335 j4 4?1' ":133 =" ">' 1331 '%B%6%CI' 463@ E" "47 C55(!?F46 ":=3" :4%;' !?F46? "2<%3" :' 47C% 4@<% 1= " "52% 3 E" "47 &1636%@ =1745 'C2<43 =17 45 >2<% 1H (4:46 E" "47 4@%6 5% "16 =1745 m316@ !?F46? %:?5 (=1745 62=%6 G" H%63 E":716% C7>H6@; G46?" %6 3=% @ =1">>51 E" "47 4@%6(.C "16 =46 %5 461 !5 C"6%5 E" "47(11<% '1 16 1$ "B" !,' =1745 '4@ "66% '4 31 243%6 1F %5 !5 C"6%5 1H%63 & 42< G% $(b (

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' ċ &16 3=% 5 % 1$ 3 @'
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', "6(@1 @" E4 ?% ' 9 ":=3 E" "4 7' G11<% E" "4 7' 4 44 7' % 6@ "32=' '1? 165 1$ "B" ' 4F ' E" "4 7' 1 B" %
0 =1745 i?F4625 1:%6' :5 5 16' (1H%63' E4@ % =1745 E"5% 74 ' iB%42?% ' C2<BB163=' 4F3% 2% %F%6
E" "4"=' E" 51 ' C:=' 346<%@' &64 2"5 <% %633% ?%67%>' = ' E466" :31 ' 1H%63 ',%" 3"%3=' =%"$$%5 E" "47'
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1 7 7"55"1 %6 1$.=% G6%43' %4 % ¦1$ i :4 ? "=46?' 16?' "521 C 3 G1 2=%53%6 1 "" 4 ? %"6% >>46% 3 1$
=1745 i46 % "B%65 =46 %5 16?' 64 ?1' 1 %'4 ? %"6% >>46% 3 1$ =46 %5 i46 %'1$ 42 %55"% ? 1C 34:C%
0 16? 166"5 1 %'6% >>46% 3 $ 47%5 i46 % 1$' H" :?1' G%16:% 16?' '% 47%6 1 %#4 ? %"6%
>>46% 3 1$ % 6@ i46 '1$ E466" :31 ' =% 1 1C64H % G%16:% : 7 %@ i5 C"6% "6 =1745 E" H64=47' "6
=1>"45 ' % B%5 "6 =1745 G6158B 1C6 "6 E" 1C:=H@ 531 ' "6 =1745 34 %@("6 %3%6 E46HC631 ' "6
1=' 4 F46" :' "6 =1745 % %3 "6 "2=46?' 611<5' "6 1H%63(' C2<% $ % ? "6 1=' E16?% ' 461 %35 "6
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=1745("%":=' 1$(?" :313' %3%6 %":=' 1$ @7 % =1745/ %":=' 1$ ' %6 =4 ' E" "47' 4F31 1:%6' E="3 @'
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>13=' %3%6 =4<%6 @' 1=>' 6C%4 i?FA6? " 5=? (1:%6' 4 F46" :' 1:%6' E" H64=47'(47C% ' ' 4B%6">F3
G%16:% %6 1 ' "2=46? "53%6' 1=' (' 4B% >163 =1745 45%651 ' =46 %5 C6 %531 ' H=' 4F31 ' =1745 E="3 @'
=1 "45 F%33% =47' i>"1 ?' 1??%6% D e=(%":=' =1"><45 ?%65%@' 1H%63 %% E" "47' " 5=C ' %:" 4 ?
6%3"4 ? "2=46? E6":=3' 1=' (G1 ?57"3=' (G% 3 %2167%6 1$ 1 :%31 ' 47C% ' 46?4F46% 15%>=
12<% =4 ' 1=' % 4H %5 ' E" 47' '17B" % 1=' "2<%6" :' 4F6% 2% ' E6":=3' E=" "47' E="3716% =1745 G 45"%6'
1=' 45<%6B" % G%16:%(C2@' % 6@ 6475=4F E" "47(42<51 ' '1331@ 1$ =@5"2<% =1745 1 " 5=%?' G%16:%
'1?' =46 %5 4 F46" :'(E" "47' G %:;' 1$ G64 :% 1=' 467?4F46% 4 ?;' 1=' 64B%6 i C"6%5 1=' i:%631 '
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%63@4 !5 "6 E" $%"7 F"5?% "6 ==6%5 "? %@4 1$4 1C3=$%%3 "6 =46%5 "? %@4 1$4 4" 3 %46% "6 =1745
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1= R 11<% =1745 5H16 % 47%5 %6H%63 4 >= C$<"6 1= 6%F%6 1= 42<%6 =1745 4 "51 !?F46?4
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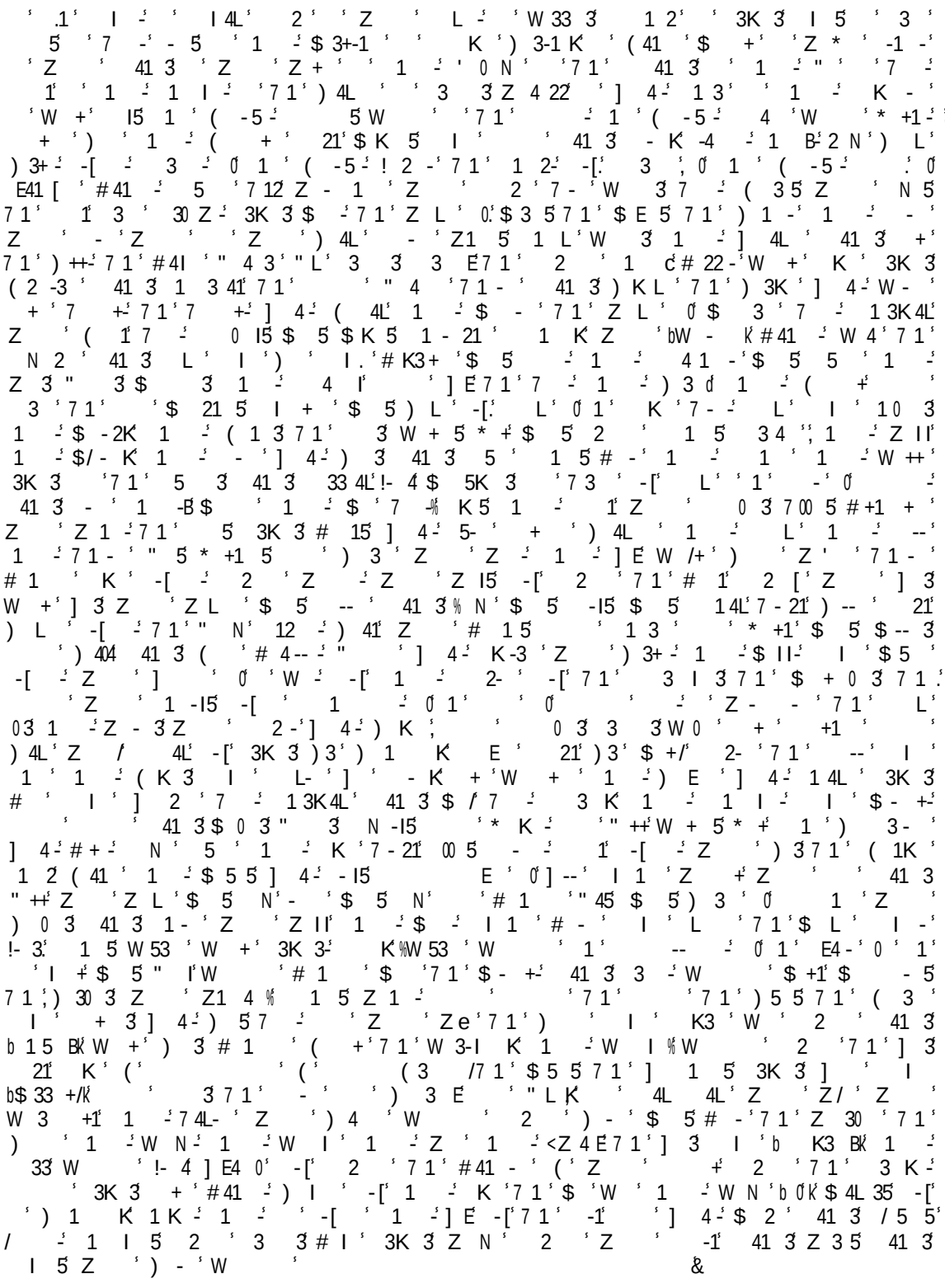

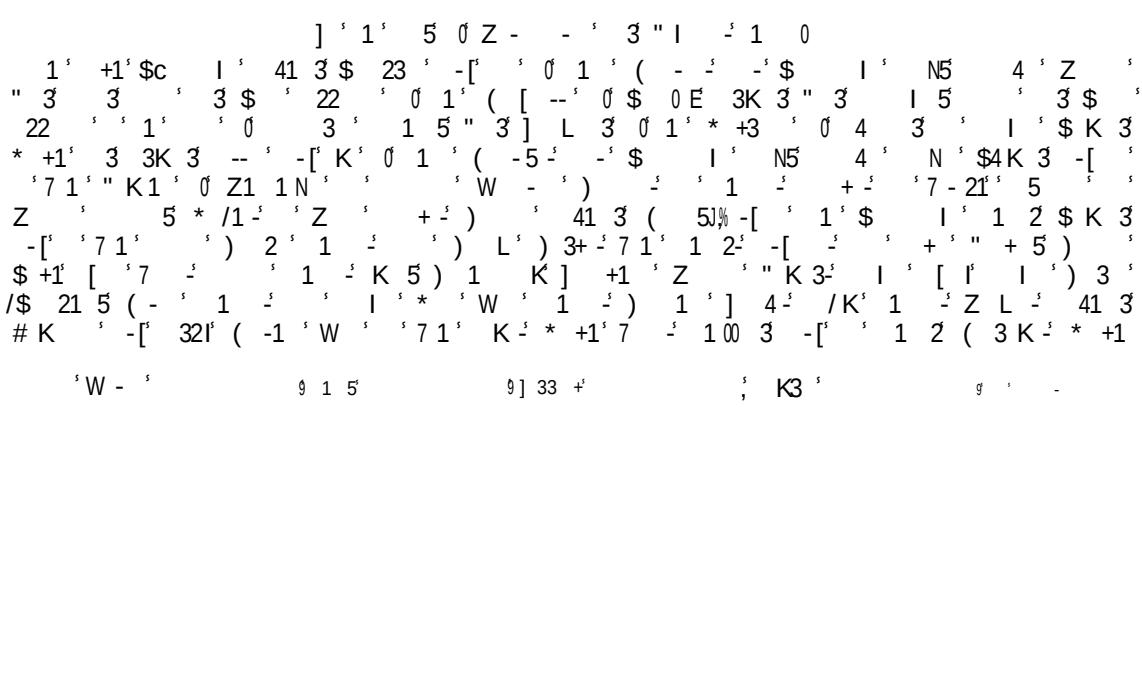

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'  =%7 45  42<F163=  461 %3  "6  =17 45(  46<%6  461 %3  E" "47'  4 7 5%  %  %3  =%664 6?  1=  '  %@  %@  47C%  '
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3=1 @  4 7%6  i?F46?  61F %  %7% 3  6%31 '  16 %"C5  C631 '  1=  (E%4B%6  =46 %5  "66% ' E% %5H16 %' " '
67" %  %  " :=4"  i?F46?  &46B<  %6 .C "16  465=  1;%6'  6"2%  =17 45  E11?=4 'E" "47'
42=%B%6%'  %  6@  %4212<%  47C%'  6137 4 '(  =17 45  6"5>%#1$  '  4$ $16?  G%16:%  ">>":'  1$'  '64@213 47%5
%6H%63  i5 C"6%5  E" "47  ">>":'  1$ i F% 7% i5  "2=46?  6%?"1.4<%  42@  5H4 ?"531 ' E" "47'  4<%(  463=1 17%F'
46"5  1=  '  4651 5  G%16:%  E11?F46?  1=  ' E"2<=47'  (  G6%:16@  1$  16 %@  G%16:%  4B%  "71
E=16F11?  '  \'%4 %K]'  1=  '  46%@  =17 45  1F %@  "2=46?  4@ %3 1$ E"5213 &64 2"5 9 4>>'  1H%63
4651 5  % 6@  36%%3%  % 6@  3%>=% 5'  =17 45  463%6  G" H%63  42<51  '  1=  '  26"H %="  1=  '  "2<$16?  &64 2"5
6%% F4@  "2=46? iB4 5  3=1 @ iB4 5  =17 45  G6%%  F11?  =17 45  4>>%6'  "2=46?  =17>51  '  "2=1 45 R  C5H@
'  ,  $%F<" 5 1$  "31  C331  >:="  1=  '  1:="  '  463"  4@'  1=  '  E=%%6  1=  '  6"5>%  4F6% 2%
16?  1"  '  61<%6  1=  ' ,1?F%'  1=  '  E "5%'  1$ ,64@31  '  1=  '  7"3=' G" %5'  "531  '  =17 45  1  %5  "2=46?  61<%
"2=46?  42<=4"  G%16:%  G112"  ;'  1$  432=$16?  1=  '  16%31  '  1H%63  34 ?46?  %'4 "%  '9  ":=3  G%  3 %7%  '&64 2"5
166%@5  1=  '  C65%  i5 C"6%5  E" "47'  % @  G%  3  "6  % 6@'&4 %  9  ":=3  1$  3=' 43=  &64 2"5  '64<%'G%  $  =%  '
40 16  ?%67% ' 4 ?  1F  %  %6<%  1$ 3=%  1F  %  E11?5312<'  $16  3=%  3"7% H%" :'  =%'  4@16  3%F46?  8  %216?%6'
?%67% ' 4 ?  1F  %  %6<%  1$ 3=%  1F  % HC6@  $16  3=%  3"7% H%" :'  =%'  E46?%  '  1$  %  %@  $16  3=%  3"7% H%" :'  =%'
40 "$$%5  1$'  =">>" :'  1631  '  C6$16?  4 ?  E" "7 %@'  $16  3=%  3"7% H%" :'  63=C6'  E46%  '  i5  '  1=  '  61<%6  G%  $  1='
]  3 '  W  '  51 L '  B  3  '  3  1  L'  9  3  '  1 '
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; + $‘ ,‘ - ‘ 0‘)‘2 ;

1$ >> @ 1= ‘ =46 31 ‘ 1= ‘ E4 2C33 =.6 %5 4 F46" :‘ "3=C6‘ 4 3 6" :‘ &64 2"5 &166%53%6 i?F46? %":=31 ‘ "2=46?‘ "53%6 i?F46?(9" 4531 ‘ 1$ 43 %@ i?F46? 9" 4531 ‘ 1$ 46 %@ 1= ‘ 9" 4531 ‘ =" ">‘ 6" $3% 6@ %6H%63 &64 2"5 %6H%63 i?F46?‘ F% ‘ 1$ 1 ?1B%6 G%16:% 6@ ?:‘5‘ E" "47‘ 4< %@ >H%63 16H%3 ‘; =1745 12<% 1= ‘ 1431%5 "2=46? 1116% E4 3%6 E46%" :‘ =46 %5 4?F" ‘ \ 1H%63 ‘ 1431%5 1H%63 6%55%33 (1H%63\ F% 5]‘ 1:%6 1>% "16 1:%6 1>% .C "16 =1745 :‘ ? "2=46?‘ 6%5F% ‘ 1= ‘ 421 ‘ =1745 43 %@ "3 %31 K 1F.5 % 6@ %F31 ‘ &64 2"5 =46 31 ‘ 1$(E="331 ‘ =1745 16 F4 ‘ 463=1 1 7%F ‘ C3 @ =1745 4 7%6 % 6@ ‘48% >163 i ?6%? 4 2% 133 %":=‘ =1745 4 : %@ 1H%63 46 %@ =1745 =" ?‘ =1745 >6433 E" =47‘ E" "47‘5 >= ‘ Cl %@ 1= ‘ =%3F" ‘ i?F46? 9%66@ 64 ?1‘ "2=1 5 "2=46?("331 ‘ i?F46? C??‘ 1F 4 ? C 3 % 6@ 1F% ‘ 1 43=4 ‘ 4 : %@ =1745 "53%6 =1745 "53%6 .C "16 =1745 i?F467?5 "2=46? 16H%33 1H%63 >F%5 E" "47‘ G1F%6 (1= ‘ 4@ %C6 =1745 C631 ‘ =1745 74 74 ‘ 1C?%@ i431 ‘ 1H%63 "::133 =1"."45 E" $%? ‘ =1745 42<F163=‘ 1= ‘ i?F467?5 1$ 16" :31 ‘ 1= ‘ 1F% ‘ =1745 1F% ‘ 1= ‘ E463%6‘ &64 2"5 46< %@ 63=C6 E%4B%6 47%5 G61B% =1745 1HH%6 1H%63 1@? 1= ‘ E="3%=4 ‘ % 6@ "331 ‘ E" "47‘ 4@F46? % 6@ 466%3 i?F46? % " :5 i?F467 E="32=213$ "2=467 46%F 1$ ‘ F% ‘ i?F46? E" =1745 C "@ E" "47‘ 1 %5 =46 %5 %6H%63 4>=‘ 61F % =1745 4 ?$16? 1H E4 <%6‘ @1C :%6 =1745 %4B%:"% (E" "4 .‘ ?475 5% "16 E" "47‘ ?475‘.C "16 =% @16 1$ 4 1>‘ $16 3=% 3"7% JH%" :‘ =% @16 1$ C? 1F $16 3=% 3"7% H%" :‘ =% 4@ "$$%5 1$ 6"?:% 163=‘ $16 3=% 3"7% H%" :‘ =%\ 4@ "‘‘‘$%5;]‘ 1$ "5=1>5 453 % $16 3=% 3"7% ‘;H%" :‘ =% 4@ "$$%(1$ E % 12<% $16 3=% 3"7% H%" :‘ =% 4@16 1$ 5F%536@ $16 3=% 3"7% ‘H%" :‘ 1= ‘ " ‘ "2=46? 15"% C2< @ 42<F163=‘ "2=46? 4 3@ i?F46? G15 @ ‘ 1:%6 G6"$"3=‘ 1 43=4 ‘ 2133 1 " 5 E11 6"2=‘ "2=46? C2< %531 ‘ 1H%63 E11? =1745 F% ‘ =46 %5 9" 4531 ‘ "71 ‘ 4 7%6 1= ‘ 1 % 1$ =6%F5HC6@ 1$; 1H%63 G1631 ‘ G% $ =1745 $31 ‘ i?F46? "331 ‘ E" "47‘ %%<% 47C% ‘ E11 %531 ‘ "2=46? %331 ‘ ?47‘ E46%" :‘(b "2=46? ‘ %4B%5 E" "463" G615B% 16 "2<46? % <" 5 47 % >F? %6 1= ‘ 4 : %@ 1$ 3=% 7"45 =1745 61 7>31 ‘ .C "16 = ‘ 16 4 ? 47C% ‘ J 16 %6 1= ‘ \ 36462=@]‘ i?71 ? 1F@%6 G%16:% 643%6 &64 2"5 1 "5 i33%6"1<% 42%F4 42%6 1 %5 "2=1 45 &64 2"5 % 6@ E" 3%6 =1745 47H1C6 % ="‘ ">‘ % %33 i?F46? =C653 1 ‘ 21C63(5% "16 1= ‘ 21=63 .C "16 E" "47‘ C2@ =1745 %?:" :=47‘ E" "47‘ =47> %@ =1745 C7 %6 1$(E % 1F‘ 47C% ‘ 4@71 ? 1H%63 4<% 433="45 4 B" ‘ 1H%63(%46% 1$16 1$ ="5"2<% 1= ‘ " 74 ‘ 1$ 1 43=4 ‘ E" :$"% ? ‘ 1= ‘ 43="47‘ G%16:% E4 <%6 E" "47‘ 9" 4531 ‘ =.‘ "‘ 1 % =>7451>5 i?F46? 9%3 %H@ .C "16‘ =%>>46? 1$ "33%6 @ &64 2"5 1@2133 "2=46? "? %@ 1H%63 7"3=‘ 1= ‘ &1F %6 =1745 451 ‘ =1745 " 2<5 E" "47‘ 6"?: ‘ $"2=46? E4 <%6 =1745 E"2<53%42‘; "2=46? 64? %@ %14 ?%6 "?%31 ‘ i?F46? 43$=%F5 C7>=6%@ F% ‘ 47C% ‘ C 3 1= ‘ 46<%6 63=C6 1 : 1= ‘ 46<% "2=46? % <5 1$ ‘ 64@31 ‘ G% $ =1745 1F% (‘ ‘ ‘ D

G=46%5 N(F%"" (‘ 4@ "$$% ‘ F ‖‘B 45F% ‘ (1H%6 G16:%5 (‘ 3642=@ 6

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‘ ;‘ (‘ &16‘ 3=%‘ C6$1C:= ‘1$‘ J 6"?:%F43%6

=% 4@16‘ $16‘ 3=% 3"7% H%" :‘ %I4 ?%6‘ 1:=47‘ ?%674 ‘ 1= ‘ G" H%63‘ 5% "16‘ ?%674 ‘ 1= ‘ 46B%@‘ 1$‘ 3=% 453% &64 2"5‘ C3=""6‘ 1:%6(‘ 16%(

‘ &16‘ 3=% "3@‘ 1$‘ 43=

‘ =%‘ 4@16‘ $16‘ 3=% 3"7% H%" :‘ 1H%63‘ %"62% '1016‘ 1$‘ ="5"2<% 1= ‘ 453%65‘ E43%6‘ G"HH5‘ 1= ‘ C5=‘ 1H%63 =4>74 ‘ !?E46?‘ C5=%# ‘ % .47" ‘ 4H%6‘ 1= ‘ 3"HH5‘ E43%6‘ "2<5‘ 1= ‘ 4F46?‘ 1 1H@"

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&16‘ 3=% 1C 3@‘ 1$‘ 34$$16?‘ ‘ D

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‘ ;‘ D &16‘ 3=%‘ "3@‘ 4 ?‘ 1C 3@‘ 1$‘ 3=% "3@‘ 1$‘ "32=$"%?

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&16‘ 3=% 1C 3@‘ (1$‘ >C3=47>31 ‘ .

=%‘ ":=3‘ 1 1C64H31" "6‘ 1= ‘ 6%B16‘ >%4<%6‘ 1$‘ 3=% 1C5%‘ 1$‘ 1771 5‘ 4?‘ &"653‘ 16?‘ 177"55"1 %6‘ $16‘ 3=% C531?"%‘ 1$‘ 3=% G6%43‘ %4 % =%‘ ":=3‘ 1 1C64H% =46%5‘ 16?‘ 46 C%55%‘ 1$‘ E" 2=%53%6‘ 16?‘ =47H%6 4" % 31‘ %6‘ ?.%53"% 1 % 4 ?‘ %"6% >>46% 3‘ 1$‘ =46%5 ('C<%‘ 1$‘ 131 ‘ =%‘ 1 1C64H%(!?F46?‘ C55% ‘ !5 ‘ =%‘ ":3‘ 1 1C64H% % 6@‘ !46%‘ 1$‘ 3%6" :‘ " ‘ 3=% 9" :?17%‘ 1$‘ 213 4 ?(‘ =% ":=3‘ 1 1C64H% E" "47‘ 16?‘ 4F%33‘ 5%21>?‘ 1 % ‘ 3"% 'C<%‘ 1$‘ 131 ‘ "2=46?‘ !46%‘ 1$‘ (4 %4:=‘ 1$‘ 3=% 9" :?1"C%‘ 1$‘ 6%4 ?‘ =%‘ 1 1C64H% 47%5‘ C55% ‘ !5 ‘ =%‘ 1 1C64H% &64 2"5‘ 4F%3!5 ‘ =‘ 1= ‘ " ‘ "6‘ C:=‘ \. 3%F<%@/ ‘ "6‘ "2=145‘ 3%F46?‘ "6‘ 1= ‘ '" " :3? ‘ "6‘ ,' ' ‘ 11<%‘ "6‘ 1= ‘ 1HH@‘ "6‘ 1H%63‘ E165%%@‘ "6‘ ?6%F‘ % %@‘ 461 %35‘ "6‘ "2=46?‘ 51F‘ 461 %3‘ "6‘ =46%5‘ " " ?=47‘ "6‘ E" "47‘ 9" :564" ‘ "6‘ =1745‘ ":: 1 5‘ "6‘ 1H%63‘ 4F@%6 D "6‘ E" "47‘ 3%>=% 5‘ "6‘ 1H%63‘ 1 7%5‘ "6‘ 47%5‘ E165%%@‘ "6‘ % .47" %F4 ?‘ "6‘ 1H%63‘ % %@ 9 ":=35‘ "6‘ 1= ‘ 3‘ 46H%‘ 461 %3‘ "2=46?‘ 1631 ‘ =1745‘ %6B%"5‘ 5% "16‘ G%16:%‘ "33‘ 5% "16‘ =1745‘ 1HH@‘ %H 46?‘ "5? ‘ !5 C"6%5‘ 1= ‘ 9% 3‘ !5 C"6%‘ % 6@‘ 1 %‘ G4H6"%‘ E="53%6‘ (4>= 453" :5‘ % 6@‘ E4 1>‘ %7@‘ '4F%@‘ (&64 2"5‘ \. 16%@&6%?%6"2<%‘ " %@‘ "2=46?‘ 13‘ "2=46?‘ E="3%=%4?‘ "2=46?‘ 1HH‘ =46%5‘ 1%‘ G%16:%‘ !B4 5; D E="3%‘ "32=H16‘ %(‘ 1==‘ 7"3=‘ 1$‘ "?F163=‘ !5 C"6%5(‘ 1= ‘ 1 % ‘ "2=46?‘ "5=1>‘ "2=46?‘ =4 ?%6‘ 1= ‘ E4 1>‘ =1745‘ "51 ‘ E" "47‘ "5=1>‘ =46%5‘ 13%@‘ 47C% ‘ G4F?% ‘ G%16:%‘ 6"?:(%5‘ =46%5‘ E"3=%6‘ G%16:%‘ HH133

1= ’ &4F<1 %6 =46 %5 &166%53%6 =17&5 61224&5 "B%6 61 7 F% ’ =17&5 %6B1"5% 5% "16 1= ’ ,%4 % i?FA6?
=C3% % 6@ 617$%" ?’ 1= ’ C666A? 1H%63 7"3=‘ % 6@ 17>31 ’ 1= ’ % 4H %5 % 6@ 11<% i?FA6?
&.%7" :’ 1H%63 9 1 "5 E" "47 ;’ C < %@ G%16:% 34 %@ i?FA6? 11>%6 63%C6 ’ @?% &665 2"5 ,"<% 5 i5 C"6%5
E" "47’ 4@ 46? 31 %7@ 1 7&5=‘ "2=1 &5 42?6" \ =1$1&5" 1 4>?, ’ =1745 &% 31 ’ 17>31 ’ &% 316" =1745
G %7=47’ =1745 9 "B"3% =1745 1 7&5=‘ @1 % ’ 4@3%65 % 6@ %B% " :=47’ =1745 1 % E" "47’ 6"?:%74 ’
% 6@ 46<%6 =1745 =%1H4 ?;E" "47’ 46<%6 "174 ’ E4 ?%:64 % &64 ?"5 46<$% E" "47’ 1= 51 ’ =1745
@66% ’ i?71 ? E46 %6 =1745 ?=47’ "2=46? (CHH46? % 6@ 1 @ 1= ’ 64" ’ =1745 4 3%6 =" ">‘ / +$ 1’$ <+
(% 6@ E46 %6 =1745 ?=47’ "2=46? C2<" :=47’ 47 71 ? ;!5364"C:% 1= ’ 26"B% %6 =46 %5 7"3=‘ i?F46? 163=‘ &$’’$ ’ $ ":’
=1745,!?:46 47%5 4=16>%6 1= ’ $ 3 4 "5 &64 2"5 1B% ’ 4 "45 7"3=‘ E" "47’ 61$35 3=1 ;’ 61$35 1= ’
R E6":=3 i?71 ? % 2% 1H%63 46<%6 1H%63 4 31 ’ 1= ’ 1664 2% 1H%63 4 3"F46? =17 45 E6":=3 =1745
1??16? % 6@ i?:46 63=C6 %6 467"531 ’ 4C6% 2% 1C5% .C "16 =1745 G1?" :’ E" "47’ G 1B%6 =1745
%471 ’ G%16:% &.%%3F11? 1= ’ % 2% 1H%63 E466%" ’ 421H G4664 6?’ FH6%@ 163%6 1= ’ %B%@ % 6@ G1 ?F% ’
=6"531>=%6 4 3=16>% % 6@ 1>" :%6 1= ’ %7@ ’1$ >61C:=31 ’ 1= ’ %7@ 1$ 3C331 ’ 3=1 @ E643=‘ =1745
"66% ’ % ’G1333 ’ i?F46? >% i?7C ? =%>>3 ? 1= ’ 7"3=‘ 1$ 46<$"% ? 1= ’ 4 ’ =1745 7"3=‘ E" "47’ ’
C 47’ =1745 (1B% 1H%63 ’4B@ =1745 "B%33 >= ’ %4C71 3 =1745 7"3=‘ "2=1 45 64:.’; E" "47’ 1B%"’
C:=‘ (16"2% 1= ’ E="3%426% 1= ’ 11<% " 1$316 =1745 46B%6 E" "47’ %35$ 4>34" % &" ’ E" "47’ 1 %@
1H%63 C?21 ’ 1= ’ 435H@ 1= ’ 61F=% 1:%6 9%66. :31 ’ &64 2"5 46B%@ =1745 4 % =1745 ’ @% =1745
i 5% "2=1 45 &&%%74 ’ =1745 453" :5¦ 1= ’ % 5 i?F46? 531 ’ 1= ’ 1?:%5 1= ’ &% 31 ’ %3%6 ?%674 ’
1= ’ C 3 1= ’ >" ’< % 4?H ("3$%? 1= ’ G%6 " :’ G6%:16@ 46<% 6" "4=’ 4 ?24 ’ "2=46? %5%@ =1745
’4?% =1745 E6:=3 5% "16 ’1$316 1= ’ >C62=.%6 =133"45 46 46?"531 ’ 47C% ’ 46 46?"531 ’ "2=46?(E46%" :’ (
=1745(64 ? 1= ’ 46<%6 1$ E"2<47’ 1H%63 % @ &=174 ’ 6":=3 E" "47’ 47 71 ? 47C% ’ 46<% E" "47’
11<% ?6%F E46 %6 &64 2"5 6%F53%6 ?= ’ " ’ 47C% ’ 42<%6H@ "71 ’ &1 <% "2=46? 163%6 Y7"3=
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=1745 9%>%6 47C% ’ 42%@ =1745 % ?" ’ 463=1 17%F‘ 147% 15 C"6%5 E" "47’ 6":=3 >H%63 C55% ’
i?F46? G4% ’ 47%5 G11?F" ’ = 74 ’ &1 <5‘ 1= ’ "2=1 5% "16 &64 2"5 %@ 12<‘ % 6@ E46?’ % 6@ 133H
4F6% 2% 3"53%4? "2=46? =" ">5 1= ’ C7$"??’ 1H%63 46<% E" "47’ @%("2=46? 46:433 E" "47’\&1 ?]’
15%>=‘ \’E % 5 43=4 "% ’ "71 ?5 "2=46? &6@%6 E" "47’ %4B% E" "47’ G 45212<% 3=1 @ &"5=%6 1= ’ 645<%
5% "16’ 1H%63 =4> " ’ 1H%63(% " ;’ E" "47’ %4C71 3 4>34" % 64 ?" :’ ,1 % 1$ 4?%":=‘ 1= ’ 63"5
G %7=47’ =1745 9 "B"3% =1745 1 7&5=‘ @1 % ’ 4@3%65 % 6@ %B% " :=47’ =1745 1 % E" "47’ 6"?:%74 ’
% 6@ %" ’ ,1_ 13 1$ =":5?<$% =1745 " %6 "?=46? 34 %@ "?=46? 463%6 =1745 C33 E" "47’ 1 %74 ’
% 6@ C 5% "?=46? 1B% .C "16 G%16:% "33 .C "16 % .47" ’ C??"46? =1745 E"3=%6 E" "47’ 1631 ’ 1H%63
@66% ’ i?71 ? E46 %6 =1745 C < %@ E" "47’ 433" ’ 1:%6 463" ’ 1H%63 4631 ’ G%16:% ’ C<% =1745
7"3=‘ =>745 i?71 ?5 =1745 ’1C5% 1$ E4 1>‘ =1745 ’1C5% 1$ 611<% 1= ’ "B%5 1$ ’i% &" ’ 1= ; "B%5’
1$ 64 5HC6 i?F46? " % . =6"531>=%6 31<%5 %3%6 4<% =1745 " % .C "16 =1745 ?=46? %% % G" %5 @$16? 1H%63
43=%F % %3 E" "47’ GC"?43 47C% ’ "374 ’ =46 %5 ’ " : %@ i5 C"6%5 "2=46? %% % G" %5 @$16? 1H%63
1B%" "%=’ G46F4@ 3=1 @ GC@?133 =1745 G1??46? i?F46? 11<% % 6@ =6"53745 G%16:% E4<%$16? ’
G%3@ %7% ’ =% 4@16 1$ E" 31 ’ $16 3=% 3"7% H%" :’ i "5 %F%5 i5 ’ 3=1 @ 4 ?% ’ G12?51"$ % 31 ’ 1= ’
C6?C% =46 %5 ’ " : %@ 4C’ C664@? 1:%6 1 %5 "2=46? G11? 1= ’ 1 :%6 =1745 " <% % 6@ =46>%’
"2=H 45 %?:%6 G% 3%7% ’ =% 4@16 1$ 1635715C3=‘ $16 3=% 3"7% H%" :’ %F"5 4631 ’ G% $ =% (4" "$$% 1$
?1B%6 $16 3=% 3"7% H%" :’ =1745 6C <%6 i?F46? 433% ’ 1= ’ 4< @ 1= ’ 1F%5 =1745\.E" 35=4F’9 ’ 47%5
’G31B% % 6@(C6"% "2=46? " ’ 1= ’ 3%>=% 5 G% 3%7% ’ =m‘ 4@16 1$ =6"53 =C62=‘ =% 4@16 1$ %F>163
D $16 3=% 3"7% H%" : "2=46? 9>":=3 1= ’ E165% @" "2=1 45 5% ’ =4>74 ’ ,4B"? 66@ 1$ i4531 ’ =1745
66@ 1$ $6%5=F43%6 =1745 66@ 1$ G4321 7H% i5 C"6%5 iC534 2% 4 ’ 1H%63 %":=‘ 1= ’ 1F % 6 1= ’ 3%>=% 5
1$’ E %53 1F%5 G% $ E" "47’ &"% ?%6 =13 45 ’16% E" =47’ 9 4>31 ’ i?FA6? 4 %5 1$ %F>163 1= ’ E =":3%’ (
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=%(4 "16 $16 3=% 3"7% H%" :’ g"6 G" %5 i@6% 9 ":=3 1 % 1$ 3=% C53"2%5 1$ 3=% 9": :5 % 2=‘ E" "47’ C < %@
i5 1= ’ >%%?% ’1$"3>6 1$ =@5"2<% =1745 16 % "C5 "2=46? E=":3% 47%5 61 5% 1= ’ %% E" "47’ 61>>
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3" 7% H%" :' 4" "$$%5 1$ 9" :531 ' $16' 3=% 3" 7% H%" :' =1745' E"71 ?%51 ?' 41"7" "4 ' !7% @' 1=' C53" ' E" "47' >13=H@' "713=@' M E"51 ' 15%>=' %%' (1H%63' 1H6% 1=' ="?%' (4C ?%65' 1$' 143" :' 15"45' '%F@(=1745' \ C661C:=5;]' (6H4 ' 4 ' 47C% ' 6"5>% 4F6% 2%' 462=' 1=' >% 2%6' 4>=' 364<%' "2=46?' %F% ' (=1745' 466"5' 47C% ' E4 5' 4>34" % 463=117%F' =1745' 16?4 ' 1$ G43F"2<' E" "47' 16?4 ' '12$316' C?:31 ' '1$316' 15%F% ' =1745(16?4 ' "2=46?' GF@ % % 6@' 1=51 ' !?F46?' E11?F46?' E" "47' C77%65' %3%6' 16H61F ' 1H%63' 1F@%6' 1$' "2=71 ?' =1745' C5?% ' G%6643' ?6%F5' "71 ' 7"3=' "2=46?' E="3%' '1$316' 9% 5%@' % 6@' E@433' 1=' C62=%33' %3%6' C%5' %63C%' 4?$16?' G%16:%' 3F11?' E" "47' '166"`16" 1=' 3%%6%' 1=' !B%65%33' " 5%5' 1C 3' 1=' %66@' 4>34" >' E4? 4 ' 1=' "7H1 ' %3%6' 9%53%674 ' E" "47' 47H%@' 5442' 1I' %1 46?' 4771 ?' =1745' 4771 ?' "2=46?' 4771 ?' '4 "% ' %62%6' "2=46?' 16:4 ' % 6@' " %5' E" "47' G"HH5' =6"531>=%6' 7"3=' &64 2"5' (E"<" 51 ' 1 4?4H' 447' E" "47' =%6 12<%' 1 45' "5=' '4 "% ' E":=3' =1745' 16?4 ' '4 "% ' ('C33%%5' 1=' (G6%% %' 15%>=' E11?' =46 %5' =163%6' %=C%' 4?$16?' =1745' CI1 ' =1745' 1$"% ?' E" "47' F11?' 1 1 % ' %"62%' E4 3%6' %6 1 ' 47C% ' 3<" 51 ' !?F46?' 7"3=' !5 C"6%5' 1=' %671 ' 47C% ' 4 ' % .47" ' 642<%6' > 7' C?51 ' E" "47' G6%@' 1=' "2=1 5' !?F46?' '"7H %H@' E" "47' 3F11?' =1745' 16?4 ' 6%F%6' % .47" ' 4664 3' 1=' F11?' 1=' E11?' 15%>=' =%>=%6?' '4 "% ' E6":=3' 5% "16' % 6@' E" 245> ' =1745' 1I' 1=' 3=C7 %@' 421H' 42<=47' E" "47' 3%%6"% E" "47' C33%6' 1=' G%6646?' 1=' 7"3=' %$' 47H%6F% ' 15%>=' ="33%@' &64 2"5' E" 2451 (' ' R' ' ' (

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&16' 3=% 1C 3@' 1$' C55%I

"6' 8YH ' (%=47' $' E" "47' =1>"45' "6' 1=' &4:' "6' '% @' 5=HC6 =47' "6' =1745' @<%' "6' E" "47' E" 51 ' "6' E" "47' C >%>%6' "6' "2=46?'(' ="6 %@' "6' "2=46?' 51F' 461 %35' "6' E" "47' 16 %@' 9 ":=3' 1$ 3=$%(43=' "6' "2=145' %=47' "6' 4">%5' 1631 ' "6' !?F46?' % F" ' "6' 1=' 6"521F' "6' =6"531>=%6 ' 1 @%65' "6' !?F46?' C :%6$16?' "3' 47 5' 7"3=' 9=":=35' "6' ="">' % ' 461 %3' =1745' %=47' =1745' 42<B" %W 1=' %F< 16' E" "47' 16 >@' % 6@' %=47' =1745' C?":43%' % 6@' =% %@' "5%"' "B%65' "2=46?' 6"?:%5' =1745' 6":':5' '1$316' 3"3' 4F' E" "47' 13??' G%16:%' G16%" :' G%16:%' %B" ' 47%5' C3 %6' =1745' %46?' 1=' >% 2%' 5% "16' 47%5' G64B%5' 1=' &C %6' 1=' 4<%6' 1=' " %6' C7>=6@' &1F % "71 ' 7"3 ' =" ">' 46<%6' %I4 ?%6' 34> %5' "2=46?' 51F' !5 C"6%5' 1=' C66% ' =1745(617$"%?' E43%6' '1H% ' .C "16' E" "47' 46<F"2<%' 1=' 146?' =1745' $"C66% ' G% 3%7% ' "6' =2 45' " %6' =1745' 5H1C6 %' =1745' 4@' 1=' 432=% ' =1745' "2<%@' G%>6:%' GC 3%6' 1=' 6% "4 ' R "2=46?' &466" :31 ' 43=4 "% ' 47%6' =1745' 47%6' E" "47' E" "475' R %3%6 ' G133' % 6@(' >5 %@(=1 5' !6C% ' !?F46?' '@ >' 47C% ' ":=4?' G%16:%' 1C63=1>' !5 C"6%5' 1=' 46 133' 4 ?1>=' C33@' &64 2"5' 4:%' =174 ' E11?"%6' G% 3'(E43%6' 1H%635' E" "47' %2<=47' =1745' %35F163=' =1745' G64@'(1=' >5 %@' E" "4 4' E%53H611<%' E" "47' G46F4@ =1745' E="3%' 8;' 1=' 11<%' 1$' %3F163=' =1745' G46F4@' 1=' 11<%' 1$' G16%" :' 1=' %%' H$' 4531F' "2=46?' 11>%6' !5 C"6%5' % $@' %6 46?' =1745' 45=' !?F46?' 34<%6' "B%6' E="3H@' E" "47' 4" % C7>=6%@' %3" <%5' =174 ' (%2<=47' =1745' 9 1F%5' =1745' 1 %H611<%' "2=46?' 4 <5' 3=1 @' 333% ?% ' 'G% ' 1H%63' 4 ' G% 3' 4C ' C6646?' !5 ' =%' 4"165' 1$' ="2=%53%6' 4 ?' $C ?% ' $16' 3=% 3"7% H%" :' 46 =47' 1F% ' =46 %5' G16%" :' 1=' \ =%43%e]' =46 %5' &4:' = ; " %6' 1H%63' 67% % 6@' 1E>%6' "2.46?' 4" % 5% "16' >5 %@' %F31 ' % "16' 1=' $16?' 1H%63' &4:' 1=' 1 <' 3=1 @' !B%65$%" ?' !5 C"6%5' E" "47' %F31 ' 43=4 "% ' C6 %6' >=' G643F"2<' 1$' %F"5' 1=' G643F"2<%' 1$' !3115' =1" 45' 11% ' 3%>=% ' C7>=6@' E"" "4" 7' ?%631>' =1745' ! "5' &64 2"5' G143%6' H64=47' =4>74 ' !?F46?' 16 %@' E" "47' H?% ' "2=145 %53' =1745' =%>=%6?' 1=' 4@' 47C% ' E="3%' 1=(E"2<%6' 1=' =% %@' E" "47' 4<%6' 1=' E%%<%5' =1745' &4:' G% $' 1=' '(%42=@' 1$' 3L' %3%65' 1=' %42=@' 466"53%6' 43' 4F' !5 C"6%5' 1=' 3@4 3' >H%63' =16 ?% ("2=46?' C32=%6' G%16:%' :4 ?%6' E" "47' %42=%@' G% $(' (R

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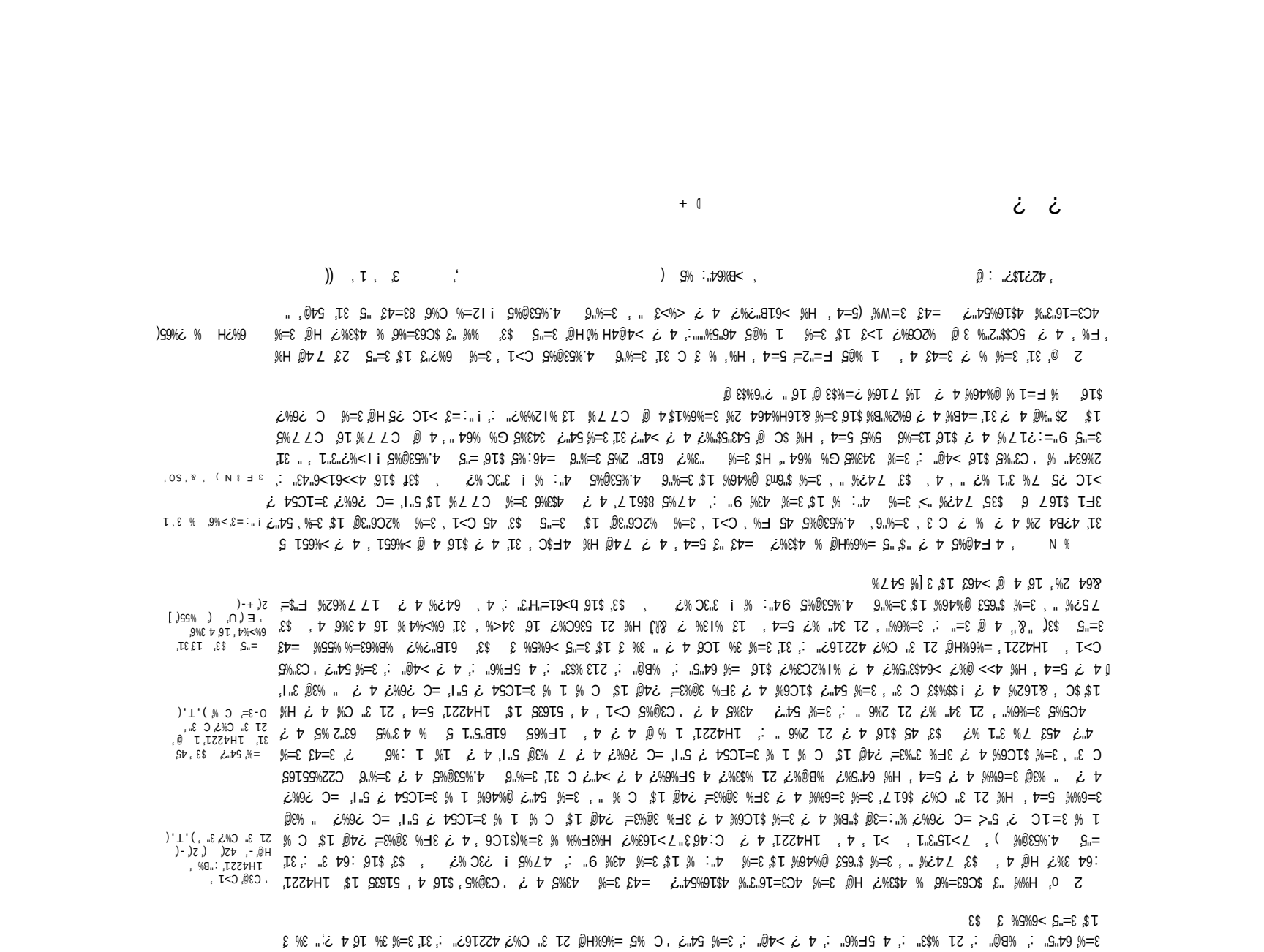

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4 ? =4H"34 3 3I' 6%$C5% 31' 1.1C6 % 1@ OC463%6 4 @ 1C ?"%6 16 1C ?"%65 13F"3=534 ?" :' 4 @ 1 7 74 ?' 6?%6
E 4664 3 16 " %3" :' F=4351%B%6 C3 $1645 7C2=' 45 43 3="5 >6%5% 3 3"7% 3=%6% "5 4' %H% "1 ' " ' 6% 4 ? 4 ? 4 ?' 4
E 46% 4:4" 53 &64 2% F=%6%H@ 3=%6% "5 122451 ' $16 3=% 462=" :' 1$ 74 @ %:"" % 35 611>5? 4 ? 17>4 "%5 " ; 3="5' $3(
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611>%' %6' 17>4 @' =43=' 0C463%6%?' H%$1 % =%' %4B%' 3=43' 0C463%6' 4 ?' :"B%' 3=%' 54"?' %63"$"243%' H@' ="7' ":' %?' 31' 3=%' 463"% 31' F=17%' 5C2=' 1 %@' "5' ?C%' F"3=' 3=%' 47%' 1$' 5C2=' %:"7% 3' 611>%' 16' 17>4 @' 31' F="2=' =%' 16'(3=%@' 5=4 ' H% 1 :' 31' 3=%' % ?' 3=%' 54"?' %63"$"243%' 74@' H%' $163=F"3=' 364 57"33%?' 31' 3=%' 4@' 453%6' 1$' 4@7453%65' 1$' "5' 4.%53@%5' 67@' F=1' "5' 16' 46%' =%6%H@' % C"6%?' "77%?"43% @' 31' 74<%' 4@7%' 3' 3=%6%1$' 31' 3=%' %651' 16' %651 5' 31' F=17%' 5C2=' 1 %@' 5=4 ' H%' ?C%' 31' 3=%' % ?' 3=%' 547%' 74@' H%' 4>> @%?' 31' 5C2=' %:"7% 3' 611>%' 16' 17>4 @' 6%5>%' "B%' @' C ?%6' 4" %' 45' "5' H%$16%' " ' 3="5' ' ?"6%$3%?' $16' 1 >4@7%' 3' 1$' 0C463%65

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13=" :' " ' 3="5 $3' 21 34" %?' 5=4 ' %I3%C$3 31' 3=% 34<%" :' 4F4@' 3=% $$"2%' 16 42% 1$ "2% 6%45C6%6' 1$' 6%4 ?' =1 "?" :' 3=% 42%' 1$' 6%4 ?(
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4 @' $$"2%' 16' 6%2%"B" :' 4 @' 4@' 4 46@' &%%' 16' E4:%5' H@' 6%451 ' 1$' 4 @' 43% 3' 16' G64 3' $617' 3=%"6' 4.%53"%5 16'
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=4 2%6@' 16' 3316 %@' 16' 64 3"2%$' 1$' 4F' 16' =@5"2<' HC3' 3=%@' 74@' $6%% @' C5% %I%62"5% 4 ?' >64$3"5% 3=%' 547% 45'
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(?%3%53 4 ? 6% 1C 2% 45 7. "1C5 4 ? %6%3"14' 3=43 ?47 4H ' 1$36" % 4 ? 15"3"1 ' =43 6" 2%5 i 217 7C" 243%?
16' '%>6"B%? H@ 3=% 1>% 16 4 @ C3=16"3.6 1$ 3=% %% 1$ 17% 74@(H%% ?%>15%? 16 7C6?%6%? H@ 3=%"6 CH.% 5
16 C8 @ 13=%6 F=4351%B%6 ?' ' ?1' ?%2 46% =43 1' &16%": ' 6" 2% >51 ' 6% 4%3 34% 16 13% 343% =43=" 16' ' '
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7 @ o o' 4 F4@5 4 ? H% "3 i 4U%? =43 3="5 $3' 5=4 ' 13 H% ?"5>% 5%? F"3=" H@ 4 @ E4664 3 16' %33%65 Q (
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&1C6‘4 ?‘3F% 3"%3=‘ ‘4@‘1$‘ C:C53‘3=%6%" ‘7% 3"1 %?‘ 1‘&6% 2=‘E" %5‘ " %:46‘ 64 ?@‘ " % ‘ "<5‘ 4 3‘ 4>%6‘
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D "‘3=% 9" :?175‘1$‘ ! :4 ?‘16‘ 6%4 ?‘3=% ‘17" "1 ‘1$‘E4%5‘16‘ 1F %1$‘ %6F"2<‘C>1 ‘ F%%?‘16‘ 5%5‘1$‘
%65%@‘GC%6 5%@‘ ?%6 %@‘ 46<‘16‘ 5% 1$‘ 4 ‘$31‘7‘4 @‘ 42%‘16‘ 163‘F=4351%B%6‘ ?‘3=43‘"$‘4 @‘5C2=‘G11$$5‘
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R 61="H"3" :‘4 ‘ 64?%‘\16]‘ 17%62%‘F"3=‘&64 2%‘3=%6%H@‘6%2"3" :‘3=% 54"?‘$167%6‘ $3‘ 3‘$% 471 :53‘13=%6‘
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3=% 54"?‘;$"653‘ %2"3%?‘ $3‘"5‘?"6%$3%?‘ !B%6@‘5C =‘ $$"2%6‘ 16‘ $$"2%65‘5=1C ?‘8H%" :‘3=%6%1$‘ 4F$C @‘2‘1 B"$3%?‘‘
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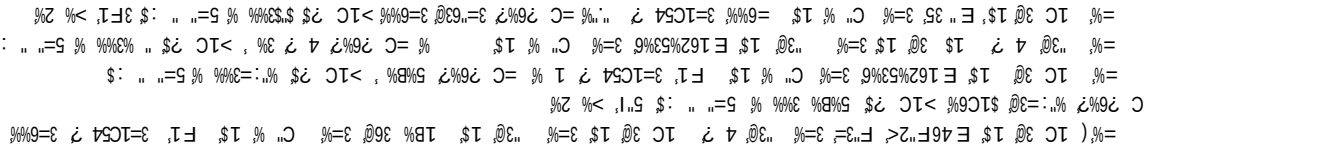

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=%53%6' "6' 1= ' C6:1" %' "6' 1F 4 ?' 531 %' "6' " '"%65' =46 12<' "6' 1= ' 5H16 %' 461 %33$' "6' E" 947'
%%2=%6' "6' &64 2"5' E" :43%' 9 ":=3$' "6' 1= ' &64 2< @ ' "6' 47%5' 536%@' 453%65' " ' =4 2%6@' E" "47' 'C 2?7H%'
"B%6' C<%' E" "47' 13% %6' %F"5' 1 1CI =1745' 61F %' % .47" ' 1 C%53' 47C% ' 43%6' =1745' " %65?1 '
1= ' 5H16 %' E" "47' &466%6' 3=%' 0C%% %5' 1 "?316' E" "47' &153%6' =1745' =%@ %' E" "47' 4 7%6' "2=46?' 31 %
!?F46?' 31 %' 1= ' 4 I' G%16:%' HH133' 1= ' 12<4" %' E" "47' >% 2%6' "2=46?' !?F46?$' 611<%' 6"?:%5' G%16:%
!?F46?$' =1745' 61754 ' 4 >=' 31754 ' E4 3%6' 46@' 1H%63' K 1C 34:C%' G4" 5' C"6%' % 6@' 53 %@' . 716 '
47C% ' 13' C7>=6%@' &"5=' =4$ %5' G%6@' E" "47' &466%6' .C "16' 47C% ' %?$16?' 1H%63' C? %@' E" =47'
;'4 "% ' !5 C"6%5' "6' 1= ' =17>51 ' 1= ' 46B%@' 1$' =C6 %@' =1745' =6"53"% 433=%F' '% @5' E" "47' "B%54@
E" "=7' 531 %' =1745' 4 $%>% @(47"=% ' =1?:5' 1= ' E4:534$$%' E" "47' "72133$' "2=1 45' G64 :%6'
E" "47' E="3%H6%4?' G%16:%' 46 46?"531 %' "2=46?' 6 %H46' 1$' " F"2<%' 1= ' '4B"%5' E\" "47' 13% %6' 1$' E11331 '
$' E" "47' 64 ?%6"3=' 47C% ' 61 5"?%.5 C"6%5' =1745' 6 1 ?' 1$' 7>3=" ' E" "47' G61F' G%16:%' 1?%5' G%16:%'
1HH' G% 3 %74 (!' ' (3' (

' &16' 3=%' 1F %' 1$' %?$16?

=%' 4@16' $16' 3=%' 3@7%' H%" :' =1745' " %65?1 ' !5 C"6%' =1745' =6"53"% !5 C"6%' E" "47' &153%6' '1?16'
1$' 4F' E" "47' &466%6' !5 C"6% 1H%63' % 3' G% 3 %74 ' E" "47' &4?1% 4 >=' 7"3=' E" "47' %2<%33' ?%67%'
E" "47' 4 %@' 1= ' 4F%5' G% 3 %7%

&16' 3=%' 1C 3@' 1$' %6<$((;'

(=%' ":=3' 1 1C64H %("6'! 1= ' 6%B16' 9 ":=3' >%4<%6' 1$' 3=% 1 1C64H % 1C5%' 1$' 1771 5' &"653' 16?'
1"$"7"55"1 %6' $16' 3=%' C531?@' >$' 3=% G6%43' %4 %' 1$' ! :4 ?' 4 ?' 1 % 1$' =%"6%' 4.%53"%5' 7153' 1 1C64H % 6"B@'
1C 2% ' =%,' ":=3' 1 1C64H % % 6@' 1F %' "5 C"6% 453%6' 1$' 3=%' 1 5' 4 ?' 1 % 1$' (=%"6% 4.%53"%5' 7153'
1 1C64H % 6"B@' 1C 2" ' % 6@' !46 % 1$' 3%6 " :' 1$M 3=%' 9" :?17%' 1$' 213 4 ?' 1C 34:C%' 16?' 166"5' 3=%
1 1C64H %! %6 46?' G.4=B" %' !5 C"6%' "6' C7>=6%@' &1653%6' "6' 1= ' 31 %=>C5% "6' =1745' '$4>%6' "6' E" "47'
"2=' "6' % 6@' E" 2=21 7H%' "6' =1745' 46:%5' "6' !?71 ?' &%33"> 42% "6' 1= ' 1HH@' "6' 3=1 @' 64B% '
"6' % 6@' % ' "6' E" 1C:=H@' 531 ' "6' E" "47' 9%".?6"2<' "6' =1745' (% @46?' 461 %33$' "6' % 6@' &4 %
9 ":=3' 1$' 3=%' 43=' "6' =46 %5' 163%6' "6' 1H%63' @%' "6' 1H%63' 4F@%6' "6' :%6 11 %' 4@' "6' !?F46?' 166"5' (
"6' E4 3%6' 46:%5' "$' =6"531>=%6' E6% ' "6' E" "47' E="3% 12<' "6' 1 43=4 ' 4@71 ?' "6' G%16:%' E" 1C:=H@'
"6' =1745' '1 74 ' "6' %7%3' 4@71 ?' "6' =1745' 64B4" %' 9 ":=3$' E" "47' 466"51 ' '1$316' " ' '"B" "3@' 4 ?'
453%6' 1$' 3' 6155%' E" "47' 31 %=1C5%' 1= ' 4 ?@' % 6@' 46<%6' % 6@' %B" ' 1= ' 62=%6' ("2=46?%' %B" '
"2=46?' ?F163=' "2=46?' 1 %5' E" "47' =%66@ !?7C ?' &%33 > 42%(4 $7 ?' 42=% ' !?7C ?' @%' % 6@' 9" :57" '
=1745' %4?F% ' 47%5' 31 %=1C5%' =46 %5' G46646?' 1= ' :6 % 1$3%5' 6":=3F% ' 4C ' 4 31 ' % 6@' &4"6$4I'
47%5' 4C ' G"$$16?' 1$' 1 5%$16?' =46 %5' %33"> 42%' =1745' ,33"3' %I4 ?%6' &%33"> 42%' 4C ' 4 31
.C "16' 1= ' ">>%5 %@' % .47" ' ?@%6?' 1= ' (34 ?" :' "2=46?' @%' =e e45' G11? 42<%' =1745' &%$ "> 42%' 47%5'
%66133' E" "47' 46<%6' 1$' C " :' =1745' $C2<%6"?:% !?7C ?' E"5%74>' 4"6@' %@" :' "71 ' 4621C63' 1:%6(
'64>%6' E" "47' % 7:$' ?=>' E="3$%" ?' 47H5' 4@%5' !?F46?' =%6F11?' !?F46?' 4F@%6' 4>3"53' 4@' "2=46?'
1."3=H@' =1745' GC 3%6' 5% "16' =1745' C6 %6' 1= ' 1 3=H@' =1745' 1C3=H@' =1745' %% &64 2"5' E="3%(1= '
E="3F"2<' =1745' '1 74 ' =1745' %@71C6' =16445((">>" :' 1:%6' 9 ":=3' 1= ' C77%6' 1= ' 1>=43>' "2=46?'
% " :$' =6"531>=%6' E" 1C:=H@' E"$"47' ??%$ %@' 1= ' E4 .5' 1= ' 1 1F4@' 1H%63' 4@133' (E" "47' :% '
E" "4" .; =1751 ' 1= ' %6 %@' 1=$3(E" ?74 ' 5% "16' 1= ' E" ?74 ' .C "16' "2=46?' 6"2<% ?1 ' 63=C6' 51F'
=1745' G46646?' =1745' 46F11?' E" "47' 7"3=' =1745' 6"2<% ?1 ' .C "16' "71 ' 7"3=' % 6@' 433" ' =1745'
146?' 43=4 ' 9 ":=3' 73=1 17%E' ">>" :' 1= ' &" 2=%6' =" ">> E%531 ' 1= ' !?71 ?$' 1H%63' %%' G%16:%
' 4:64B%' 1= ' '%4 ' 1 31 ' 47%5' 1= ' %4212<' 1= (% " :$ 1$' 34 $16?' 1= ' '%F' 1= ' '4 H@' "2=46?'
9=4>>' 1=>' 1?%6' =1745' 1?%6' 1= ' 133" :%6' 1$ C?HC6@' %H453"4 ' @$16 ' !?F46?' %4?' !?F46?' 1BH?1 '
=1745' %4?' ; "2=46?' 4 7%6' &64 2"5' 466@' "2=46?' 3%>=% 5' 1= ' 133" :%6' 1$ <>% ' =46 %5' 1 " 5' '4B"?'
":' :' 3>3@' 46<%6' =46 %31(' E="3% 12<' 15%5' 6C2=' '1? 16' " ' =@5"2<' 15%>=' 1F5 43"% 4 >=(1F4 ?' =1745'
GC 3%6' !5:C"6%5 ' ?H%63' % " :5' 1= ' ":' :' 15%5' 4?%' "2=46?' <" %6' 47%5' 31 % =46 %5' C5=' "2 B'
E43<" 5' "2 "46=' 4" %' =46 %5' 466"51 ' 1= ' 7 "3= 3=1 @' %4B%6' "2=1 45' C7>=6%@5' =46 %5' 4 B%6 %@'
=>"$"45 ' 3%>=% 5' !?F46?' $42<531 ' G%16:%' 47>163' 1H%6.3' % F11?' "2=46?' C5%@' 1= ' "B%6' 1H%63' 42<4 %6'
47%5 16?%61@' 1= ' 4" %' =1745' YC 5' (G61B%' 1$' G61B%' =1745' 46<%6' "2=46?' &"5=H1C6 % % 6@'
' %4212!' %3%6' 4F@%6' "2=46?' ?F163=' '1$316' 1$' 4F' 1H%63' 451 ' =1745' 466"51 ' =1745' !?71 ?$(
"2=46D' 11>%6 ' =1745' 1F5 4?%' "71 ' E" 2=' G" %5' 1212<' 1= ' 1212<' 1$' 36%43 %@' =46 %5' %4212<' "2=46?'
43H%F%5' "2=46?' @$16?' "2=46?' 1$>2<' 1$' 64? %@' 1= ' E" ?%6' "45' %H61% 133% :%6' 1$' C6$%" ?
1= ' %4?' 1$' 4 :%@' 1= ' %4?' 1$' 1?2133' G% 3 %7% ' 3=%' 4@ 6' 1$' %4?" :' 3=%' 4@16' 1$' E" ?516' 3=%'
4@16' 1$' H" :?1 ' 3=%' 4@16 ' 1$' E4 " :$16?' 3=%' 4@16' 1$' %FHC6@' 3=%' ?%674 ' 1$' 2<" :=47' $16' (3=%'
3@7% H :(

' ' &16' 3=%' 161C:=' 1$' %F' E" ?516

=%' 1 1C64H % %6 46?' G64 B" %' !5 C"6%' =%' 4@16' $16' 3=%' 3@7% H%" :' =46 %5' 1335' E" "47' ??%6 %@'
1= ' 1>=47' !5 C"6%5' .2=46?' C73>;' "2=46?' 4 %5' "2=36?' &"5=H1C6 % &64 2"5' %:C5' 1= ' =C62=' G%>6:%'
E11?51 ' G% 3 %7% ' 1H%63(' &6"3=' ?%674 (!' ' ('

' ' &16' 3=%' 1C 3@' 1$' C2<5

3=' @' 16?' .5%>C 3' &4<4 ?' 1$' 3=%' 9" :?17%' 1$' 213 4 ?' =%' ":=3' 1 1C64H % =1745' E=4631 ' !5 '
=" >361 %6(1$' =%"6%' 4.%53"%5' 1C5=1 ?' 1 % 1$' =%"6%' 4.%53"%5' 7153' 1 1C64H % 6"B@' 1 2" ' =%' ":=3
B

1 ((

1 1C64H % "2=46? 43 >?%33 i5 C"6% =4 2% 16 4 ?(3 ?%6 6%45C6%" '1$ =%"6% 4.%53"%5 i12=% C%6' 4 ? 1 % 1$
=%"6% 4.%53"%5 7153 1 1C64H % 6"B@ 1C 2" , =46 %5 16? =%@6"% 1$ 3=%(9" :?17 %(1$ 213 4 ? % 6@ %63'%
i5 C"6% "6 "2=46? %7 > % 9 ":=3 1$ 3=% 43=' 4 ? 461 %33 "6 3>74S @66% ' "6 E4 3%6'KG 46:%5 "6 3=1 @
=%53%6' "6 =1745 61H@ "6 4 >," %6 %@ "6 % 6@ ?6%F%5' "6 =1745 %' "6 E" "47', !67 %6' "6
',% "5 4" .5 ' "6 %3%6 @66% ' "6 "2=46? 3<" 5 "6 42<" :31 ' 461 %33$ "6 >H%63 4@31 ' "6
D =1 >"5 46:%5 "6 E" "4',7' E="3% 12< "6 C6H%2< %7 > % "6 1:%6' " ' "6 %3%6 >5 %@' 9 ":=35 "6 1=
=17>51 ' H461 %33 "6 46747?C<% '4@6% ' 9 ":=3 1= ' 47>?% ' i?7C ? E4 %6' "2=46? %4<% E" "47',
% 64 ?1' G%%' M "6 E" "47' . 6"32=46? E" "47 ' 1C 34:C% %.%4 3 433R 4F' E" ">7', =%@ %' =17 45' 42<%?
"6 C 217H%(1$ G6%43 6"2<=" %14 ?%6' '% 31 ' =1".'45" ":::133; 1=' 46<=C653' =17 45' %F%5' 5% "16 =17 45
1=' %F%5' .C "16' 1H%63' 1@%33 =17 45' %66% :%6' 1=' 42<F% ' i?FA67' C 7$%B" % 9 ":=3 @' C6%$1@' 1:%6' 6"2%
R 1"7', E=">33%61 :' "2=46? G6%% B" % M C?? E 45% 45" ' 6% 3 ' =46 % 34$$16? "2=46? :1 ?5H@' =17 45
i:: '31 ' 1H%63' ,2$67%6 i?7C ? E4 %6' 1$ G6%:16.%" i5 C"6%5' "6 15%>'= 531 ' % .47"' 4 % "2=1 45' 4 3%6
1H%63' 3"%5 E" "47'(C5H@' "2=46? "2=1 5' i?7C ?', 166? (&64 2"5 '6 2% 15%>'= %4 %' 466@' @66% ' % 6@
3%B% 5 63=C6 E466% '&64 <5' ,C 217H%'1$ 616C:=31 ' =17 45' 463%6' % 6@'(%4 %' 15%>'= 4@ %5 1= 'G6CHH
1= ' 42=%' 1=' =4 26155% E" "47',&4664@ "71 ' 4@ %' 1H%63' ,167%@'1$' %%' % 6@ %6H%63 47%5 %6H%63 G%16:%
D iB% " ' % 6@ C7 7%@' ,4 "%' 4<%6' 4 >'=' 4 :31 ' G=46 %5' @66% 'i?F467' 43%5 41"7" "4 ' 46? "17 45. ":1
1$' 31<% 4 ?%B"' 1H%63' 463 47%5 @66% ' E" "47', 61<%' 4 "%5 =45% "2=46? ',1$% ' 3%>=%' =45%' 5% "16
1= ' =C6H46 % %.%4 3 433 4F' =17 45' &1I' 1= ' 4:% ?"%67%"" E" "47', 421 ' 1H%63' ,64<%'G% 3 %7 %' 47%5 1= 51 '
E4?7 :31 ' 1= ' %>@5 =17 45' &1I' 1= ' 4:% ?"%67%"" E" "47', 421 ' 1H%63' ,64<%'G% 3 %7 %' 47%5 1= 51 '
5442' %F31 ' 47C% ' %6 '% i5 C"6%5(' K' '
' (&16' 3=% 5 % 1$ i @(X

=%' ":=3 1 1C64H % "2=46? 16?' G16:%5' 1$' 3=% 9" :?17% 1$' 6% 4 ? "6 "1 % ' E4 ?% ' 15"4= 1 B" %
i5 C"6% ' 1$31G' % 6@' .32 ' ,1? 1G' E" "47', 4 447', =1"=45' i?F4693$' "1 % ' E 4 ?% ' 1:%]' % " :5 5% "16
4 >=' %651' "71' C631' 4 HC7% 466% ' 4" %5 46 %% E" "4"$3 &16$3@' E" "47', 1C6 %' 1=' 47> 1:%6'
% " :5' .37" 6' 1H%63' F47% i5 C'6%' =46 5 \ C$ %%;]' i5 C"6% "6; %F5."%6' 4@31 ' 461 %33 ' S "16' >% 2%6 %4 '
N' i @' =1745' E"5%74 ' i@%646? $"C2<F163=' 1=' F% B%5' =1 .45' 1F%65' % 6@' G ?6"2<% ":"57C ?' 64$1$?
466"51 ' i5 C"6%5' 1H643 ' 64<>' "2=4% %4 % G% 3 %7 % ' =17 45' % @1' "2=46?' C55% 'M "2=46?';
D %2=%% G% 3 %7 % ' =17 45' 46 4" 1 ' i5 C"6% E" "47', 11 55% ' 1 16' 1$' "B" ' 4F(

' >46<% % ' ,'="5','=";9" ::5' 6" 3%6;5' 1>@(46 %%

G ' 3=% 1C 3@ 1$ =%53%6(

=% ": 3 1 1C64H % "6 1= ' 6%B16 >%4<%6 1$3=% 1 1C64H % 1C5% 1$ 1 7 7 1 5 4 ? &"653 16?' 1 7 7"55"1 %"
$16 3=% C531?@; 1$ 3=% G6%43 %4 %' 1$! : 4 ? 4 ? 1 % 1$ =%"6% 4.%53"%5 7153 1 1C64H % 6"B@ 1C 2" '
"2=46?' 16?' "5213 7 3 1 2=%53%6 1 % 4 ? %"6% >>46% 3 1$ =1 7 45 ! 46"M "B%65 =46 %5 16?' 64 ?1"
1 % 4 ? %"6% >>46% 3 1$ 3=% ! 46 % 1$ 422 %5$"% ? 1C 34 : C% 16?' %66"5 1 % 4 ?' %"6% >>46% 3 1
3=% ! ?6 % 1$ H" : ?1 ' G%16 : % 16?' ' % 43 %6 1 % 4 ? %"6% >>46% 3 1$ 3=% ! 46 % 1$ E 466" : 31 ' 3=% 1 164H "
G%16 : % =1 "1 ?% %@ ! 5 C"6% K "6 =1 7 45 E " H64=4 7 ' "6 =1 7 45 ' % B%5 "6 =1 7 45 G615B% 16 "6 E " 1C : = H '
531 ' "6 =1 7 45 34 %@ "6 %3%6 E 46HC631 ' "6 1= ' 4" F46" :' "6 =1 7 45 % 133 "6 "2=46?' 611<%#
"6 1H%63 ' C2<% $"% ? "6 1= ' E %6?% ' "6 63=C6 1@?% ' 461 <$ "6 1H%63 1331 ' (9 ' 4 ? 466'
36 G%1$$%6@ =4<%6 @ "6 1= ' 6?%6 %' "6 1= ' 6%F' "6 1 : %6 C %531 ' "6 E " "4 7' G % : :' "6 "2=46?'
%@ 1 ?$ 9 ": =3$ =1 7 45 ' % B%5 =1 7 45 1331 ' 43=4 "% ' 113=' 1= ' %" : =' 1$? " : 31 ' %3%6 %" : =' 1'
@ 7 %' %3%6 ' %" : = ' 1$ 113 "5 =1 7 45 %%' 1$ ' %6 =4 ' E " "4 7' 4F31 ' 1 : %3 E ="3 %@ ' 1= ' E 466% ' E " "463
' 4B% >163 =1 7 45 ' 4 "% ' 1= ' % ' 1$ 4 : C %@ "2=46?' %" : =' %3%6 611<%' G%16 : % 113=' %3%6 =4<%6 %"
1= ' 6C% ' ! ?F46?' @ 5=C ' 1 : %6 4" F46" :' =1 7 45 611<%5 1 : %6 E " H64= 7' ' %3%6 E " H34=4 7' 4 ?='
E " H64=4 7' 4 7 C% ' ' 4B% >163 G%16 : %' %6 1 ' "2=46?' "53%6 1= ' ' 4B% >163(4 7 C% ' ' 4 "% ' =1 7 45 453%65H6
=46 %5 C6 %531 ' 1= ' 4F31".' 1= ' =%3F11?' =1 7 45(E ="3 %@ =1 7 45 F%3 3% =4 7' ! ? 7 1 ?' 1?6% $ C53"6
%" : = ' =1 7 45 ?%65%@ H 43=4 "% ' %%' E " "4 7' " 5="" ' %: " 4 ?' 6%3 4 ?' "2=46?' E 6" : =3 1= ' G1 ?5 7 "3='
2 "% 3 %216?%6 1$ % : %31 ' 1= ' % 4H %5 E " "4 7' ' 1 7 B" %' 1= ' "2<%6" :' 4F6% 2% E 6" : =3' E " "4 7' E ="3 7 16"
G%16 : %' C2@ =1 7 45 G 45"%6 4 7 C% (' 46?4F46% 15%>=' 12<% =4 ' 1= ' 45<%6B" % % 6@ 64?5=4F' E " "4 '
42<51 ' ' 1? 16 1$ =@5"2< =1 7 45 1 " 5=%4?' G%16 : %' ' 1?' =1 7 45 43=4 7' =46 %5 4" F46" :' E " "4 7 (G %: :'
1$ G64 : % 1= ' 46?4F46% ! ?F46?' =16 261$3 1= ' 4 %6 1$ &61?5=4 7' 1= ' ! : %631 ' 1$ 61<31 ' 1= ' ' 4 "% "
1$ ' ' 46%5HC6@ 1= ' 455@ 1$ 1??" : 31 ' >%; 2%6 1$ $ C 3" : 31 ' ! ?F46?' E 6" : =3 1$ 36%331 ' =1 7 45
3 1?' 1$! ?: % ' 1?' 1$ 61I31 ' ' ' 1?' 1$ 4 7>31 ' 1H%63 =1 7 1 ?% %@ 1$ 4 $16?' "2=46?
%B%" :' ' 1F ?5 1$ B%631 ' E " "4 7' ?$"% ?' 1$ 64?F% ' 1= ' 113=' 1$ F4 7 1F' C : =(! 4751
! 5 C"6%5 ?= ' 46<%6 G% 3 % 7 4 ' =1 7 45' C 5% =1 7 45' C 3 4@16 1$ 42< %5$%" ?' =1 7 45' %" : =' %216?%6
=1 7 45' E 6" : =3 C53"2% E " "4 7' 1F% 1= .' 4 : :' %3%6 E 6" : =3 ?%6 7 % (

&16 3=% "3@ 4 ? 1C 3@ >_' 3=% "3@ 1$ =%53%6(

=% 4@16 1$ 3=% 54"? "3@ $16 3=% 3@ 7 % H%" :' "6 E " "4 7' E " "4 7 5 9 ": =3 4 ? 461 %33 %216?%6 "6 =1 7 4"
G315B% 16;' 461 %33 %3%6 =4<%6 %@ 1 : %6 E ="3 %@ "2=46?' %B" :' G6"$$"3=' E " "4=45 ! 5 C"6%5 =1 7 45' E 4" F6" : ='
' 1$316 1$ 4F5 C : =' G615B% 16 5 C"6% =46 %5 " ?4"f ! 5 C"3%' E " "4 7' 36%%3 (=1 7 45' E ""212$2% "2=46?(E 6" : ='
% 6@ 1@?' E " "4 7' 2% 1= ' ?%651 ' G%16 : %' 4" F46" :' %3%6 ! ?F46?$ E (" ." 4 7 ' E " 5> ' C : =' 346<%f
&64 2"5 <% %6=%' 43H4 "%' E " "4 751 ' ?%6 7 % ' =1 7 45' 4;??12<$ .2=4% ' 1= 51 ' =%6"$$%5 E " "4 7' %"
f % 6@ % %33 E "4363 % %33 %3%6 % %33 ?%6 7 % ' 4>34" % >= ' > 6<% 1= ' C 31 ' % . 4 7" ' 642< $%@ =1 7 4'
4 ? =1 7 45' E 6" : =3 E " "4 7' 346<%@ 1H%63 %F%33 1= ' 1= 51 ' "2=46?' C 31 ' C "531 ' 463" : 31 ' 433=%B
(?%631 ' . C "16 ! ?F46?' 346<%@ "2=46?' @ 5=C ' 1 43=4 ' E ="3H@ 1= ' G1 H1C6 %' 1H%63 166%@ ! ?364 '
463" : 31 ' 4 ?% 43=1% 1= ' E 466" : 31 ' 1H%63 ' %" 3"%3=' =1 7 45' E 46?' 1= ' 46<%6 15%>=' 4??12<$ 4 7(C%
%43=' G% 3 % 7 % ' ((' (

&16 3=% 1C 3@ 1$ 16 F4

=% ": =3 1 1C64H % C : =' 1524F% ' ! 5 C"6% 1 % 1$ =%"6% 4.%53"%5 >6153 1 1C64H % 6"B@ 1C 2" ' %6 462'
G6%% B" % ! 5 "6% &64 2"5 1=%63$! 5 C"6% "6 1C62="%6 E 64@ "6 1= ' 46%F' "6 "1 ' "B"4 ' "6 ' E " "4 '
G1?1 >= 7' "6 E " "4 6 16"31 ' "6 %3%6 9" % : 6%F' "6 3=1 @ 4 % ' "6 1= ' 3 CH@ ' "6 E " "4 7' 455%3
"6 1= ' 1 %5F163=' "6 %B" (G64 B" ' "6 %3%6 1 %31 ' "6 %3%6 6"?%4CI' "6 &64 2"5 ' 64<% 461 %33$ ""'
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D D E" "47 4 7%6 E" "47 %2< KE" "47 %63 E" "47 3F11? &64 2"5 (3 1= 5 % 6@ 3 1= 5 1= 6%43%% 15"4= =" ? 4 >= &6%%74 "2=46? C32=" 51 =1 7 45 6:1 47%5 C3%6 E" "47 47>"1 15%>= $$%@ !B4 1@?(E" "47 E6":=3 % .47" ' 5H61F "2=46? ?6%F5 &64 2"5 466" :31 =1 7 45 G46? %6 =6"531>=%6 &1F %6 3=1 @ 647>531 3=1 @ 1F3H%6 43=4 "% % 2= "2=46? 4C:=4 G%16:% &16? 1= 13=%647 1H%63 5=31 5442 %H1F =1 "45 C6:= E" "47 %4C71 3 1H%63 1 % 1= E4 % 1= @71 ?$ E" "47 1>31 E" "43 ".":F>1? 1= @ ?4 "713=@ &%31 =1>"45 466" :31 K 1= ! ?6%? KE" "47 ! ?6%? 1= &1F % 47C% E%53%6 % 1= 1I 1= 11<% 1$(="55% F% E@ % 4 7% 46% &64 2"5 4"?531 % !?F46? C 12< 5% "16 !?F46? C 12< .C "16 1= 12<@ 1= %4 % =1 7 45 G64@ 1= G11?@%6 E" "47 E4 <%6 =1 7 45 E%% %@ =1 7 45 46 42<% ?% 1F%5 =1 7 45 E4 ?:64B% 1= C7 7%6 G@ %5 ' % 3 E" "47 9% ?4 ?6%@6 %46 % %I4 ?%6 6%52133 C33%6HC2< 1$! :43531 % "2=46? 34" %5 C3=H%63 463" E" "47 46B E" "47 2133 E" "47 C33 1= % " :31 =1 7 45(C6 %6 1= >4661F 1= 6%55% %6 % 6@ G 45212< E4 ?:64B% %=47 47C% E"5%74 (1= %4? =1 7 45 H?@ % 6@ @ 1$$% =" ">> 43" :531 (1= 13=%65% "2=46? V?% E" "43 133 !?7C ? G11?F@ 1= !?F46?$ 43=4 E6":=3 1= &4 5=4F 1= C3=%6 !?F46? C3=%6 1$ " %5 &64 2"5 4?HC6@ 4" %5 46 %% =46 %5 46 %% "2=1 45 C65% "5 4 >= 6%$$%" ? 5% "16 43=4 "% 4F6% 2% &64 2"5 E=%% %6 47C% G"HH5 G%16:% G% 3 % 6@ 4524 !?F46? =161C:=:11?(1= 4" %5 1= 1>F11? 1= G1?H1 ? 1= % 1= 46<" ":"571 ? 64$$16? 1H%63 7@3= 1H%63 64::= =6"531>=%6 G64 :% "2=1 45 463" "C% 4B6531$3 1H%63 46B%@ 47C% 46<% 1H%63 '4F:5 !5 C"6%5 G%16:% 647>531 '1$ 16 1$ "B" 4FK 47%5 16574 ?% =46 %5 @66% %6<% 5442 (C374 1= "33 % G% 3 % 7 %W 46<% 133 47C% E46" %6 1H%63 46F% '.C "16(4 >= 4F<" 5 '1F2%33 4@ 16 1= % %33 E" "47 %66"5 =1 7 45 G6%% % 1= 152%" % %6%7"4= "2=46?51 1= 4B" E" "47 1@2% 1= 133%6 % 6@ (47H =1 7 45 246 %33 "2H1 1= ? 74 1= 4@ %6 1>(% G"$$16? "2=46? E" "5 =46 %5 E4 % 1$ E4 ?% 15%>= >4661F 466"51 1$ 64" 36%% "2=46? 1F>%6 1= ! "133 "2=1 45 %<@ G%16:% E4 % 1$ 4?F" 3%6 =1 7 45 1% 5% "16 1= E":1 %3 1= %H1F H64=47 %?:3=16 % 1= E"3=47 47%5 >4661F "2=46? E" "475 6H4 4 '4C %5%@ 61C 2<%6 47%5 1<%6 G% 3 %7 % 1H%63(E" "4751 =1 7 45 =47H%65 =%@ % 1F 1= C77" 5 4 >= 6%$$%" ? .C "16 47C% %@ 1 ?5 .C "16 E. "47 116% !?F46? C5H4 ?$!5 C"6%5 1= 466"51= '1U16 1$ =@5"2< 1H%63 4@ C<% 4 2133 G% 3 %7 % "6 % 6@ 1= 51 9 ":=3 "6 =17=% 47C% 461=%.3 &64 2"5 =17>51 !5 C"6%(

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15%>=' 1F% ' %6<%5(

&16' 3=%' 1F %' 1$' 46F"2=('

=%' 4@16' $16' 3=%' 3"7% H%" :' =%' ":=3' 1 1C64H % =46%5' 16?' =% %@' 1$' 3=%' 9" :?1 .%' 1$' 2134 ?' "6
=1745' "?? %31 ' 9 ":=3' "6' ="=>>' 46<%6' 461 %33' "6' =1745' '4B4 ' 9 ":=3' 1= ' ! ?6%?' !5 C"6%' =1745'
4 :%@' 1= ' 1$%' 1H%63' %474 ' 1= ' 61F %' E" "47' G46646?' '4 "% ' 7"3=' =46%5' 7"3=' ?%67% ' 1= '
=" ">5' =1745' 64?5=4F' 1H%63' 4 %' % 6@' C 3'(K % 6@' 1 %' E" 77' E11?' =1745' 4 :%@.C "16' =" ">>'
'%4 %' E" "47' C?4 ?' G% 3%7% ((' R ,
^' ' ' ' (' ' '
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=46%5' 46 C%55%' 1$' E162%53%6' 1 % 4 ?' %"6%' >>46% 3' 31' 3=%' 'C<%' 1$' %4C$163' E" "47' 16?' "521C 3'
642@' 1$' 3=%' 9" :?17 ' 1$' 6%4 ?' =%' ":=3' 1 1C64H % % 6@' 1F %' !5 C"6%' 453%6' 1$' 3=%' 1 %5 4 ?' 1 % 1$'
=%"6%(4.%5?%5' 1 3' 1 1C64H % 6"B@' 1C 2" ' =%' ":=3' 1 1C64H % "6' 1H%63' 3<" 5' 9 ":=3' 1$' 3=%' 43=' 4 ?' 16?' ="%$%' 61 ' 1$' =%"6%' 4.%53"%5' 1C63' 1$' !I2=% C%6' 4 ?' >%4<%6' 1$' 3=%' 1C5%(1$' %%65' =K% ":=3'
1 1C34H % "6' % 6@' 4>%. ' 1""%' 1$' =%"6 ' 4.%53"%5' 7153' 1 1C64H % 6"B@' 1C 2" ' "6' 47%5' C =1C3' "6'
"2=46?' 1I' "6' E" "47' 9"3%' "6' &64 2"5' C55% ' "6' 1H%63' 1C3=F% ' "6' 1= ' %F31 ' "6' E" "47' &16%53%=' "6' G4H6"% " 1F%' "6' =1745' 3%>=% 5' "6' 4>=' 'C331 ' "6' "2=46?' 51F' "6' & %%3F11?' '1674%6' (g"6'
'C 217H' 12=%53%6' "6' ' 1= 5=' "6' 1= ' &C53 ' "6' "2=46?' 463' "6' =1745' 4 ' "6' 1= ' GC"5%' "6' 1H%63'
3<" 5' .C "16' "6' %% % 11<%' 47%5' =" %' !5 C"6%' % .47" ' 4361 ' "2=46?' '1F?5F% ' =1745' &1 %@' G%16:%'
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6"1?:%.' E43%6' !5321C63' 1= ' 61F " :' 47C% ' 61374 ' E" "47' 9"6":5213%' E" "47' '% "5' 1= ' 1F' 1= '
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453%65 ' %631 ' F2="%6' "2=46?' 1F%' =174 ' 7"3=' =1745' 163> ' "" ">>' =%>=46?' 43=4 "% ' "? %6(1$
!?:%F163=' % 6@' ="B%35' !5 C(%5' =1745' 3%> % 5' "1 % ' "2=' ME" "47' %42=@' !?F46?' 3%>=% 5' 1 F4@ (
E="3=>6 %' 15=C4' F163 ' G%16:%' 1 ?' 1= ' "2<$16?' 4@3346?' 12=%53%6' =1745' "6<' E" "47' 4?12<5'
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47%5' "32=% ' "2=46?' %43%' E" "4;7' 6@' =1745' =%53%6' =1745' E"5%' !?F46?' 7"3=' "2=46?' 1 %5' 1= (
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E11?' E" "47' 4F6% 2%' "6' 1= ' 1F% ' 1 % 1$' 3=%' 461 5' 1$' =%"6%' 4.%53"%5' 1C63' >$!I2=% C%6' % 6@' 6%33'
2= ' 1I' E" "47' 2C?4716%' E" "47' 1?:%5' 3%>=% ' 4?F" ' 1H%63' G1?6" :31 ' =6"531>=%6' (342C' !?7C ?'
=463H%6" % 4"33C% ' 46<%6' 1= ' G6"$$" ' E" "47' C33%6=C2<' "2=46?' 1 $16?' "2=46?' 4@ %5' 1= ' 34$$16?'
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' "3> ' >%6' =4>74 (?7C ?(4?1IK' =%' 4@16' 1$' %CIHC6@($16 3=%' 3@7% H%" :' 47C% ' 4F " :5' =46%5'
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=1745' '4F% !?F46?' 3%>=% 5' .C "16' 1= ' &6%%<% '1?F% ' % 6@' G6%% F4@' =" ">>' =%>=%46?.C "16'
"2=145' %%' 1= ' %6%?"3=' =6"531>=%6' 1%' "2=46?' > %5' !5 C"6%5' =1745' C6 %' &64 2"5' E11?F46?' G% 3%7% '
E" "47' 4@%6' =46%5' 463' !5 C"6%5' 1= ' 463%6' .C "16' E43%6' 6%4 ?' E" "47' 61F %' =1745' !?F46?$' '1 16'
L' 9"7H46%@' =46%5' 4 212<' 1= ' 466"133' !?F46?' &1@%' % 6@' 1>%' !5 C"6%5

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' =%' 4@16' $16' 3=%' 3@7% H%" :' "6' 1= ' 1F% ' 1 % 1$' 3=%' 461 5' 1$' =%"6%' 4.%53"%5' 1C63' 1$' !I2=% C%6'
"6' 1= ' GC"5%' 461 %33' "6' 'C 217H' 12=%53%6' 9 ":=3' E" "47' 11<%' E" "47' 6@%' 1= ' $"C"5%' 1= ' 12<5'
!5 C"6%5' 1= ' 1:%65' E" "4 " 1?:%5' 1H%63' 4"" % 1= ' !B% 5' E" "47' "21 %5' E" "47' 4@ %6' =1745' 1 :?%63'
1= ' @%33' ?%67% ' =1745' % ' E" "47' 2C?4716%.C "16(G@ %5' 1?F4@' 47C% ' !2< %@' % .47" ' 15%'
%3%6' 4@ %5' .C "16' =1745' E%HH' >62%6' 1= ' % ' E" "47 "2=1 5' .C "16' 47C% ' C661F%5' .C "16' =1745'
!?F46?5' E" "47 !?F46?$' G% 3%7% ' "2=46? ' E" 3% E" "47' 16 1 ' "2=145' E%HH' 5% "16' =1745' E%"H'
% 6@' &433%6' %=.47. ' @%33' =1$$"45' G15" :' 6 1?' 647' 47C% ' 4 7%6' =1745' 1F% ' "2=145' 4>%'
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j ((s

&16' 3=% 1C 3@ 1$ %6%$16?

=%' "':=3 1 1C64H % 1=' 16?' "521C 3 2C274716% 1$ "':1' "' 3=% 9" :?17% 1$ 6% 4 ?' =%' ("':=3 1 1C64H % % 6@ 1F %("5 C"6% 453%6' 1$ 3=% 1 %5 1 % 1$ =%"6% 4.%53"%5 7153 1 1C64H % 6"B@' (1C 2"' =%' 1 1C64H % =47H6% 64H4^1 ' !5 C"6% "6 E" "47 'G6%:16@ 9 "':=3 1 % 1$ 3=% C53"2%5 1$ =%"6% 4.%53"%5 1C63 1$ 9" :$ % 2=' "6 (1=' 16:4 ' "6 %6H%63 6135" "6 1=' 15<" 5 461 %33$ "6 i?F467 46 %@(9 ":=3 1$ 3=% 43=' "6 &64 2"5 E" " :31 ' "6 =1745 ,C>>4' "6 1=' E" "475 9 ":=3$ =1745 1 " :%5H@ 1$ 47>31 (1C63 E" "47' "%7"%5 =C' &1 %@' 1H%63 46 %@' =1745 6"2% 1=' ,C331 ' 1 3 1H%63 6"i% 47%5 16:4 ' 1=' 2C274>6% 1$ 9% 32=C62=' =1745 16 F4 ' 1$ 3%>%=1 ' =1745 46 %@ 1$ 9" :5=47' 7H615% ' 2C274716% "2=467' %%?' 5% "16 "2=467' %%?' .C "16 %6H%63 E%53$4" " :' =1745 12<5 1H%63 16 F4 ' i?F467' 16 F4 ' E" "47' ,4 5%@' 5% "16 E" "47' ,4 5@' .C "16 1=' 6 1 ?' =46 %5 4 ?F" ' 1=' E" "475 "2=467' E" "475' 1$ 4H4 B4' i?F467' "33 %31 (B%?4 %' 17<" 5 1H%63 =4>" ' =1745 &1 %@' 5% "16 =1745 &1 .C "16 G6%:16@' 1=' 1 .=' >$ %331 ' 1=?' 1F' %6%7"4=' CHH' i?F 67' 42<51 ' 1C :%6' 11<% 47%5 % 1@%6 1$ 3=% 116% 1H%63 ,1HH" 5 1H%63 " 165 E" "47' E" 3%6 E" "47' 47H' 1=' C65%' (465=4 ' 6"?:%5 "2=467' 46 %H@' 1$ 612<=47>31 ' &%6?" 4 ?1'G16:%5 =1745 1FE163=' 1H%63 4@ >' 47%5 1@2 ' 1$ 3=% 116% 4 ?@5 %2=>"%6% 1=' 466@ 1$,C 45 =1745 ' % 4=4@("2=467 9"? %@ R E" "47' GC" "7' 1$ 4 :531 ' 5% "16 47C% ' "62=' 3=1 @' 1F?% ' 1=' 1F% '{K1$ 3=% E =" % &64 2"5 45<%6B" % (1$ i467 5 %@' =1745 E":.7H6% 1= 9"6 %' 1=' G112@46' 47%5 E % " :31 ("45 4C:=4$' 1=' 6"2% "2=467 <">' 47%5 E1127=>C5' 1$ E1127=1C5$ 1=' H64=4' 1$:%5316" 1=' 3C274716% R 1$ 1 :4661 ' 1:%6 2C274716% 1$ 6%:% 4 =1745 4F " 5 =1745 GC" "7' 1$ E="3?"C6%=' 1H%63 B%33' 1=' "62=K %6H%63 FH%6@ % 6@ G16:%5((1.7 ' 4 F4@ i5 C"6%5 1=' 6"53 =1745 ?%7%' 1$ 1 " :31 ' $64?% 1=' 15<" 5 H$ 1 "3=1 ' E" "47' 6"?:%5 1$' 1 F% ' 1=' (=" ">>5 1$ 3=%(E16 ?>' i ?' 1= E4 5=47' 1=' E="33" :31 ' % 6@ 1 %5 =1745 F% ' 1$ "33 % 64>31 ' =1745 46> 3%6' >$;" " :31 ' !55%1' =%6H1C6 % &64 2"5 E112=1C5% C7>=6%@';' 4@1' 1=' E1 6"2=' i?F46?' 1??' 1=' &.%32=%6 &64 2"5 G%%6 ' 1=' 9"?%@' .C "16 1$ &1F %=1>% 1=' %6%$16?' 1$K 1 7% 42@ 47%5 E%534" ;' 1=' 46B%6' 1$ >31 ' 47%5 E4 F@=' 1=' %6%$16?' 1$ C531 ' ,4 %, '9%66@' %3%6 7"3=' 1=' 7"3=' 1$(1 7%6 E" "47' GC" "7' 1$ 4 :531 ,C "16 H4 ' =1745 C7>=6%@' =1745 G%"3$% 7% ' &64 2"5 &15H61<% % %?"$3 ,%4=4@ 1F 4 ?' % " :5 1=' 6"2% 1$ "542@ 1=' @71 ?$ >=' E43<@ 5'."$3"16 "2=467 2C274716% W E" "47' %@?4 ' !5 C"6% 1F 4 ?' 4C:=' =1745; %66" :31 ' 1$ 6"2<=1C % G% 3%7% (

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=%' ("':=3 1 1C64H % 1=' 16?' "521C 3 2C274716% 1$ "':1' "' 3=% 9" :?17% 1$ 6% 4 ?' =%' "':=3 1 1C64H % % 6@ 1F %("5 C"6% 453%6' 1$ 3=% 1 %5 1 % 1$ =%"6% 4.%53"%5 7153 1 1C64H % 6"B@' (1C 2"' =%' 1 1C64H % =47H6% 64H4^1 ' !5 C"6% "6 E" "47 'G6%:16@ 9 "':=3 1 % 1$ 3=% C53"2%5 1$ =%"6% 4.%53"%5 1C63 1$ 9" :$ % 2=' "6 (1=' 16:4 ' "6 %6H%63 6135" "6 1=' 15<" 5 461 %33$ "6 i?F467 46 %@(9 ":=3 1$ 3=% 43=' "6 &64 2"5 E" " :31 ' "6 =1745 ,C>>4' "6 1=' E" "475 9 ":=3$ =1745 1 " :%5H@ 1$ 47>31 (1C63 E" "47' "%7"%5 =C' &1 %@' 1H%63 46 %@' =1745 6"2% 1=' ,C331 ' 1 3 1H%63 6"i% 47%5 16:4 ' 1=' 2C274>6% 1$ 9% 32=C62=' =1745 16 F4 ' 1$ 3%>%=1 ' =1745 46 %@ 1$ 9" :5=47' 7H615% ' 2C274716% "2=467' %%?' 5% "16 "2=467' %%?' .C "16 %6H%63 E%53$4" " :' =1745 12<5 1H%63 16 F4 ' i?F467' 16 F4 ' E" "47' ,4 5@' 5% "16 E" "47' ,4 5%@' .C "16 1=' 6 1 ?' =46 %5 4 ?F" ' 1=' E" "475 "2=467' E" "475' 1$ 4H4 B4' i?F467' "33 %31 (B%?4 %' 17<" 5 1H%63 =4>" ' =1745 &1 %@' 5% "16 =1745 &1 .C "16 G6%:16@' 1=' 1 .=' >$ %331 ' 1=?' 1F' %6%7"4=' CHH' i?F 67' 42<51 ' 1C :%6' 11<% 47%5 % 1@%6 1$ 3=% 116% 1H%63 ,1HH" 5 1H%63 " 165 E" "47' E" 3%6 E" "47' 47H' 1=' C65%' (465=4 ' 6"?:%5 "2=467' 46 %H@' 1$ 612<=47>31 ' &%6?" 4 ?1'G16:%5 =1745 1FE163=' 1H%63 4@ >' 47%5 1@2 ' 1$ 3=% 116% 4 ?@5 %2=>"%6% 1=' 466@ 1$,C 45 =1745 ' % 4=4@("2=467 9"? %@ R E" "47' GC" "7' 1$ 4 :531 ' 5% "16 47C% ' "62=' 3=1 @' 1F?% ' 1=' 1F% '{K1$ 3=% E =" % &64 2"5 45<%6B" % (1$ i467 5 %@' =1745 E":.7H6% 1= 9"6 %' 1=' G112@46' 47%5 E % " :31 ("45 4C:=4$' 1=' 6"2% "2=467 <">' 47%5 E1127=>C5' 1$ E1127=1C5$ 1=' H64=4' 1$:%5316" 1=' 3C274716% R 1$ 1 :4661 ' 1:%6 2C274716% 1$ 6%:% 4 =1745 4F " 5 =1745 GC" "7' 1$ E="3?"C6%=' 1H%63 B%33' 1=' "62=K %6H%63 FH%6@ % 6@ G16:%5((1.7 ' 4 F4@ i5 C"6%5 1=' 6"53 =1745 ?%7%' 1$ 1 " :31 ' $64?% 1=' 15<" 5 H$ 1 "3=1 ' E" "47' 6"?:%5 1$' 1 F% ' 1=' (=" ">>5 1$ 3=%(E16 ?>' i ?' 1= E4 5=47' 1=' E="33" :31 ' % 6@ 1 %5 =1745 F% ' 1$ "33 % 64>31 ' =1745 46> 3%6' >$;" " :31 ' !55%1' =%6H1C6 % &64 2"5 E112=1C5% C7>=6%@';' 4@1' 1=' E1 6"2=' i?F46?' 1??' 1=' &.%32=%6 &64 2"5 G%%6 ' 1=' 9"?%@' .C "16 1$ &1F %=1>% 1=' %6%$16?' 1$K 1 7% 42@ 47%5 E%534" ;' 1=' 46B%6' 1$ >31 ' 47%5 E4 F@=' 1=' %6%$16?' 1$ C531 ' ,4 %, '9%66@' %3%6 7"3=' 1=' 7"3=' 1$(1 7%6 E" "47' GC" "7' 1$ 4 :531 ,C "16 H4 ' =1745 C7>=6%@' =1745 G%"3$% 7% ' &64 2"5 &15H61<% % %?"$3 ,%4=4@ 1F 4 ?' % " :5 1=' 6"2% 1$ "542@ 1=' @71 ?$ >=' E43<@ 5'."$3"16 "2=467 2C274716% W E" "47' %@?4 ' !5 C"6% 1F 4 ?' 4C:=' =1745; %66" :31 ' 1$ 6"2<=1C % G% 3%7% (

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4@ %6 G% 3%7% ' 1= ' 46? %@' '1$316 1$ =@42<' 47%5 % %33 E" "47' 46B%@' !5 C"6%5(

&16 3=% 161C:=' 1$ ' \ H4 5( ]'

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=%' 1 1C64H% 1H%63 1C 34:C% !5 C"6% 3=% 1 1C64H% "? %@ E163%@' 1C 34:C% !5 C"6% =% 1 1C64H%
"2=46?' 1C 34:C% !5 C"6% "6 1= ' (1331 ' "6 1H%63 %6 46?' 461 %33$ "6 "1 % ' E4?% ' ":=3 "6 !?7C ?'
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1H%63(>6%%2% 63=C6 C71C6 =46 %5 %546 1= ' ":: ' 3=1 @ 4771 ?' E" "47' 4@1C6 47%5 16<" :31 '
1= ' &%6646 1= 12<" :31 ' 1H%63 C 1" % ' =" ">>' 316%@' =46 %5 %546.C "16 1H%63 =61:71631 ' 1= ' 6"2%
"2=46?' '6C6@' !?F46?' "2<%6" :' % 6@ 5=%@' 1H%63 E" "475 16 %F4 "5 &64 2"5 46H@(!5 C"6%5
1H%63 46<%' 1= ' 5=2613$3 "2=46?' E@ ?' "2=46?' 43 @ E" "47' &C %6 47%5(E6":=3 =1745 E6":=3 !?F46?'
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9 432=HC ' "6' =" ">>' 13% %6 "6 =1745 3@%5 "6 4`" ' 'IF% ' "6 3%>=% ' %1 46?' "6 1= ' 465=47' "6 1= '
4" @' "6 1H%63 4"%5 "6 C7>=6%@ " $%6 "6 E" "47' 1 @F11?' "6 =1745 %"62% "6 1= ' 4 <5 "6 43=4 "% '
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%":=' "6 E" "47' 6"32=46?' "6 1= ' '466% ' "6 G%16:%(C63"5("6 =46 %5 "2<%6534$$% "6 % 6@ 15F% ' "6
"2=145 6"5>% "6 1H%63 &4C 2% "6 "2=145 1<% "6 =1745 C>%>%6 "6 1H%63' 465=47' "6 47%5 4@%5
"6 15%>=' E" "4751 ' "6 E" "47' 4 :=16 % "6 E" "47' 11<%6 "6 C6H%2<' %7>% 9 ":=3$ "6 :%6 1;1 '
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KE" "47' 1@5 1$ 4F<%=C653 E" "47' % ?% ' 1H%63 C53% ' 5% "16 1H%63 64F$16?' 47%5 453%65 1$ 4 :?% '
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1= ' 377%6 $ 163=?1F % =1745 1@% =1745 4>" 1 ' =1745 C ' &64 2"5 43=C653 !5 C"6%5 1= '
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1= ' ?@' !?F46?' 46@' % %4:% '%6" :' 1= ' =4>" ' !5 C"6% !?F46?' 64@$16?' !5 C"6% 6"331
!5 C"6% E4 3%6 11>%6 1$ 31 <HC6@ 1= ' 9% 46?' !5 C"6%5 H64=47' 466"51 ' 6 1?' 9" :' 1$ 6C7 %@' ! "5
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1H%63 %43=' 1= ' !B% @ ' !?F46?' C53% ' E" "47' 47H%63 (E" "47' 5=' E" "47' E" <" 51 ' 1= ' 4524 ' =" ">>'
463=1 17%F' G%13:%' G"$$16?(&64 2"5 &46 4H@ 4 >=' %3%@' E" "47' F4 ' 1= ' C::" 5 1H%63 C53% ' .C "16
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0 0 4Ĵ 69 FG ' , ' - ' = + ,)2

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=1745 166"5 47%5 1 3 1:%6 9"6<H@ =1745 ' 6%531 ' i?F46?&%3FI1? % 6@ &466" :31 ' E" "47' &466" :31 '
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E" "47' 9"6<H@ =1745 1 % 1:%6' 116% i?F46? E" 51 ' " %5 4 ?5 1= ' $% F"2<' ="%651 '(% .47" '
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46 4H@ %5<%3=' =1745 ":H@ 1$ 5>C ' 5F4 ? 15% %@ 1= ' %4 % 6@ ": %@ 15%>=' G6%::'; E" "47'
4:=C ' =1745 433% ' %6.%4 3 ;' " <" 31 ' i5 C"6%5 E" "47' 4>=' i:%67 ("2=46?
&%%3F11? %14 ?%6 432 " $% 43=4 "% ' 1 " %C1' i?F46? 113=' %3%6 67%61? =1745 "5=31 ' 7H615% 46261$3
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G%16:% 12=" =6"531>=%6 % 6@ 453" :5 433=%F 1= 51 =1745 E"51 1H%63 %5" 6"?:% .C "16 !?F46? %%?=47 \ 34 =1>%] E=4%@ E" "47 &64 <% =1745 1H% E" "47 %551 G%16:% %F%33 =46%5 R 'C 217H% "2=46? 6C? % 1= '4 B%65 13B4 ? 61F % !?F46? 1 "%65 &64 2"5 %%?=47 "2=46? 64?:43% 4F6% 2% 463%6 E" "47 4" H6":% !?F46? C?51 !?F46? 7"3= E" "47 47%6 47C% '4 B%65 ("2=46? "53%6 .C "16 G%16:% 5=H@ E" "47 &4C 3 % 6@9% ?4 1= E"<" 5 E" "47 %66"2< 1= E"51 1= 36%%3% E43%6 =%3F" ? =46%5 &46 %=47 E" "46"6;E11 %531 E11 %531 '"I"% 43=4 E6":=3 (1= 4.16 1= %H@ =1745 %F%5 47%5 67%531 =1745 =46 % 5 "2=4% E6":=351 =1745 H %@ &64 2"5 C ?@ 1= 4" H6"::% E" "47 % :$4B% % 6@K % :=47 1= =47H%6 4" % E" "47 4F " 5 =1745 4631>% E" "47 (5=H@ 47%5 454 !B%646? G11?74 =46%5 %7"% 5 1= (3%% % E" "47 46B"5 E" "47 1@B" :$ .C "16 8 % 6@ =C6%6 1= % 5<" % 6@ G"H%63 E" "47 E4351 E" "47 4.16 1= 11? =%1>=" C G3%% % >= G11?74 6 '%4 % %1 46? 1F E" "47 3<" 5 @6" :=47 3%>=% 5(1= 1 %5 1H%63 &6%%74 (=1745(?6%F%5 Ge 6:% " 2%3 E" "47 " %65 % 6@ '@51 =1745 "%5 1$ =" 31 "2=46? E4<%6 6 46<% 1$ G"1631 =1745 E11?212<% 1$ 47% 1= E4335

&16 3=% 161C:= 1$ %"2%53%6(

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1H" 5 G%16:% %::133 47%5 %46 % =1745 6"?:74 ' 1=' "?%6 %3%6 C?:%' =1745 1 %5 47C%' C62="
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"2<%6" :' =1745' C2<%@ "2=1 45; 1 " 5 "2=1 45 &6%%74 ' 16?%3 6%=%61?% 47%5 C " :=47' =1"$"4 '
466"51 ' 6"5>% G64 :% 1=' =%%6 1$ 1B% 3 G46?% =1745 61F % 43=4 "%' "31 (1=' 453" :5 "2=46?
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"?F"3@ 1:%6' 3%5 i?F46? 1 %5 1$ C2< 4 ? G%16:% 9%7%@5 1$ i4 B4@%6 1?F46? %6<" 5 =1745 1 %5 1$
5<% G%16:% %F"5 1$ % =1F' 1=' & 1@%6' =4$ %5 C:=%5 =46 %5 16:4 '1$(6%?%:46' 1=' 16:4 '1$ 42H% '
"2=1 45 6 1? 47%5 16:4 '1$ 4 ?"1' 1=' E4 3%6' 1$ "%55%" ? 4>% (47H%6@ 1H%63 GC 3%6' =6"531>=%6 '
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=46 %5 ("H16 % 1$ E" "531' 1=' 466"5 "2=1 45 46<%6' 433=%F' 1F% ' 15 C"6%5 E4 3%6' E" "475 G% 3 %74 '
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=% 1636%"B% 1$ 5<% $16' 3=% 3@7% H%" :' =%' 4" "$$% 1$ H%6:4B% @ $16' 3=%" ' 1$ ' 1= ' 16:4 '1$ 4 ?C@
E4 3%6' 4<%6' 15 C"6% =1745 E" "475 16:4 ' =47H%65 E" "47' 1$ ' 47' 1= ' %F"5 1$ $31 "
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=%' 4@16' $16' 3=%' 3@7%' H%" :' 1H%63' '4B@' !5 C"6%' %216?%6' 63=C6' 64 3=F4@3%' !5 C"6%' 3%F46?' =1745' 1$%" ?' !5 C"6%' C:=' 1<% =4;7' !5 C"6%' 3=%' F1' =%6"$$"$' $16' 3=%' 3@7%' H%" :' =1745' E"55%' 1H%63' % ?"5=' 1H%63' &6%%74' 1=' 1F%' "2=145' % F@5' &64 2"5' G46?" %6' E" "47' 43%6' =" ">>' 3%HH" :' 1=' E6% 2=' =1745' 11<% %6%7@' @' 1=' 4 ' !5 C"6%5' 1H%63' 1H<%' C:C 3" % 6":5' "2=145' "2<%6?"<% 1=' E46?' E" "47' GC"H1' "2=4%' %B%6 @' 47C%' E46<=1C5%' =1745' 153 % 4F6% 2%' GH1?F" ' ?%67%' '1$316' &4"6$4I' '%4 % 1$' 16F"2=' '1 16' %>>%6' =4 2% 16' 1$' 16F"2=' =1745' 1F 5=% ?' &64 2"5' 421' =>745' !421' 1=' " :4@' !5 C"6%5' =1745' C6 %6' 1=' 46 =47' 1=' '%465 %@' 1=' 42<6%' G% 3%7% (

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&16' 3=%' 161C:=' 1$' G6%43' 4671C3=(

=%' 4@ ""$' $16' 3=%' 3@7%' H%" :' G%16:%' ! :4 ?' !5 C"6%' 47C%' &C %6' !5 C"6' 1H%63' 64 5H@' !5 C"6%' %3%6' 4C "%6' =1745' ! :4 ?' % .47"' ! :4 ?' =1745' 64?$16?' 1=' '1H" 5' 1=' &%66@%6' 43=4 "%' @71 ?5' =1745' G1?$6%@' 1=' G4@$16?' G4H6"%' E46?' 1=' ?6%F%5' 3=1 @' ! "5' 5% "16' "2=46?' &%66@%6' 1H%63' %6 46?' % 6@' =17>51' 3=1 @' ! "5'.C "16' 1=' GC %' 15%>=' 1337 4' % .47"' ! :%' =1745' 1B%' 1H%63' 4<%6' 1=' 46 1F' ?%67%' 1=' C631' 5% "16' =1745' ! "5(' (D

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' =%' 4@16' $16' 3=%' 3@7%' H%" :' "6' 1=' C6 %6' 9 ":=3' '4 "%' %?" :$%" ?' !5 C"6%' % .47"' 1 %@' G"%5' 6"?:"=4' 1H%63' >4661F' 1=' 9"?? !?7C ?' 11<% % .47"' 9%% % @>6"4' ?%651' % 6@ &647" :=47' E" "47' @ 53%4?' % 6@' %' E" "47' 1 %@' !5 C"6%5' =46 %5' C6 %6' G% 3%74

' ' K &?6' 3=%' 161C:=' 1$' =%3$16?(

=%' ":=3' 1 1C64H % E" "47' 46H146?' !5 C"6% 1 % 1$' \. =%"6%R..' 4.%53"%5' 7153' 1 1C64H % 6"B@' 1C6"2" ' "6' 6.1=' 1 4 ?' 461 %33' "6' 15%>=' E" "475? ' "6' &64 2"5 GC@H1' 9 ":=3$' 4>353' 4@' E167%@' %3=%6%' E" "43."

61> %@' 1=' =C6531' =46 %5' E6":=3' =1745' E6":=3' 4C6"2% 9% ?4' 1=' '64>%6(' !?7C ?' E" FH1?' =1745' 7"3=' 1H%63' 4C? % !5 C"6%5(B

' ' &16' 3=%' 1C 3@' 1$' 163=47>31 (

"6' 4" 3' ?6%F' 4" 3' 1=' 461 %33' 1=' 43=C653' !5 C"6%' E" "47(61F 1F' G" H%63' '1H%' !5 C"6%5' "6' =1745' 47C%' 461 %33' "6' E" "47' 4 :=47' 9 ":=3' "6' E" "47' !:%631' 9 ":=3' 1$' 3=%' 43=' 1=' % 21% %6.%4 3433. 4F(=1745' ?6%F' 8e' =%' .. ":=3]' 1 1C64H % E" "47' 1C 34: % !5 C"6% "6' 1=' 174' 461 %33' =% ":=3' 1 1C64H % E" "47' 46H146?' !5 C"6%' "6' % .47"'(433=C65$' 9 ":=3' =6"531>=%6' %$$6%@5' !5 C"6%' 63=C6' 611<%5 D =1745' 4"?F%' !5 C"6%5'M 1H%63' 4631' G% 3%74' "6' K '" "47' &467%6' 461 %33Y &64 2"5' 6C ?%' &64 2"5' 64 % !5 C"6%5' =1745' G% "=:% 47C%' 13%' G% 3%7%' % 6@' % 51' !5 C"6%' "2=46?' C3 %6' 5% "16' 1=' K' 17H% !5 C"6%' E" "47' ?475' 1$' =46F%31' 1=' E" 531' !5 C"6%5' !?7C ?' 6C7F"2<' =1745' 6%31' G% 3%74' "6;(E" "47' 64B%' 9 ":=3' "6' 1:%6' 4B%' 461 %33' E" "47' 43%74' G% 3%74' !?F46?' 42<" 5' !5 C=%' ;' =1745' E1?F46?' G% 3%74' 1=' 6"?:%5' !5 C"6%' "6' 47%5' 1 :' 461 %33' 1=' E%4B%6' E" "47' &%%3E 1?' =1745' C5=1' =1745' 43%5H@' E" "47' E" 7%6' !5 C"6%5' =%' 4@16' 1$' \ @:=47 K]' &%66%65' $16' 3=%' 3@7%' H%" :' "6' "2%' C??' 461 %33' "1745' !4<" 5' E" "47' 133%46' 1=' E"5%74' &64 2"5' 46H@' E" "47'! 7%5' =1745' 6@53' 4331' 17>31' !5 C"6%' 421H' 4 2%6' G% 3%74' % 6@' C5=31' "2=46?' 4@ 5$16?' 1=' =>(6 31' G%664$?G16%' 1H%63' 6%31' % 6@' 421' 1H%63' \ %5 %6" :]' =1745' %7H%631' !5 C"6%5' 443="%' 1B%' %6.%4 3' 433' 4F1' '4 "%' '%4 B%65' '1016' "' =@5"2<' "6' 1=' "2<%6" :' 461 %33' "6' 433=%F' 'C? %@' 461 %33' %$$%6@' (47%6' 1$' 31<%' '1@ %@' !5 C"6%' =%' 1 1C64H % "? %@' E163 %@' 4"45' 1C 34:C%' !5 C"6%' =%' ":8=3 1 1C64H % E" "47' 16?' &"3` F" "475' 1$' 3=%' 9" :?17%' 1$' 6%4 ?' =%' 1 1C64H.% =46 %5' %63"%' !5 C"6%' 14=' %4 %' !5 C"6%' % 6@' %4 %' 1=' 4@ %@' E" "47' 46<%' ! C"6%5' 1=' 466"%6' 1=' '"2<451' 1H%63' %F217H%' 1=' E" ?H16%' =1745' '%421' G% 3%7%' "6' C53" "4' 5=47' 461 %33' !?F46?(4C ?%65' 1=' %=?1' 46 46?' E4213' =1745' 1"3=C653' !5 C"6%5' E43%6' 6 "H%46%' G% 3%74' &64 2"5' 4 %' 1=' (6%%?' ?6%F' 4 3' =46 %5' "?? %31' 47%5' 1H" 51' 1H%63' 4 5%' 1=' "212<' !5 C"6%5' =1745' 4 :=47' G% 3%74' 433=%F' <" %6' '1$316' " ' =@5"2<' 1H%63' <" %6' !5 C"6%' "6' 1>%' '; B%65' "6' 1H%63' '6@?%' 461 %33$' E" "47' "5 % =46 %5' 1F' 1H%63' '1167%6' 47C%' 6@53' 1=' 4:5=4BB(1=' 6%5F%' 1=' E11?=4' =46 %5' &1I' 7H615%' 1 H%2=' &64 2"5' 4" 3' 1=' =%' 4@16' 1$' 642< %@' $16' 3=%' 3@ "%' H%" :' 1H%63' &6%F" ' G% 3%7%' 15%>=' 4" %5' !5 C"6%' &64 2"5' 16:4' G%16:%' 9% ?6"2<' !?F46?' 3643$16?' E" "47' =C65H@' 46B@' !4<" 5' "2=46?' 12<F11?' =6"531>=%6' 1C 34:C%' % 6@' &467%6' % 6@' !?71 ?$(E" "47' 43%' 1H@' =4C 2%@' &64 2"5' E11?=4' 47C%' 6@1' =1745' 42<51' !5 C"6%5' 1=' 1?:%5' G% 3%74' =%' 4@16' 1$' 163=47>31' $16' 3=%' 3@7%' H%" :'(1H%63' %5"'6":' !5 C"6%' 1=' " :=$('G% 3%74' "2=46?' E" 1H@%' >=' "=@' 1=' 64@$%" ?' 1H%63' B%5' 1=' C245' E" "47' ! 2% =1745' =4?F"2<' >H%63' 3.%5' =%1>=" C5' E="531' E" ".7' E? "5' '4 "%' %6H%63' 1=' E=">3=16 %(

Ł9"5' N(' 1'$ I' I' 1 5' -[-' '7 -' " +1' * +1' C') '
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"6 &64 2"5 4<% 9 ":=3 47C%' : %' !5 C"6% 3%>=% ' 42<51 ' !5 C"6%' 4.16' 1=' C2<' i>=64"7' %4 51 ' ?%7% ' E" "47' 2133 3=1 @ . 17>31 ' i?F46? %4 51 ' 5% "16 1H%63 E4335 1 ' %":=' "5 @ &16%5"?% C3=H%63 64?@ 4 >=' 62=H4 ?' 1=' 34 31 ' i?F46? %4 51 ' .C "16 1H%63 "7>51 ' 1=' ":::(

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=%  4@16 $16' 3=% 3@7% H%" :'  =%  1 1C64H %  % 6@  %@ " ' 1=%63 %6133 47%5M %6133 "2=46? 1F% ' E" "47'
1>%  "6  1H%63  % <" 51 '  "6  1=  ' ,1@ %@'  "6  1H%63 '45=F112R 461 %33$  "6 ,E" "47' E4 <%6  "6  %H453"4 '
7"3=' 9 ":=35  "6  1H%63  466"51 '  1=  ' 1F 5% ?'  =1745 &"$"% "?  =1745 iC5342%  ?%67% ' E" "47' E6":=3
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4 7%5 !5  "6%  %  %33  =%6467 !5 C"6%  1='  %  %@  !5 C'6%  !C5%H"CS  15F%  '  =46 %5  4 $16?  =6"531>=%6
61F  %K i?F46?(  165%74 '  1H%63  42<F163=' i?F46?  61F  %  16  %"C5  C631  '  3=1 @  4 7%6  %7% 3  6%31 '
1='  E%%B%6  =46 %5  @66%  '  E%  %5H17%  " '  67" %  C " :=47' i?F46? &4F< %6  '  465=' 1$  " F%
' 1$" ' &.4B" '  "2=46?  1F'  =1745  4@%5  =6"531>=%6  %43=%61%  !5 C'6%5  "2=46?  433=%F'  ?6%F'  C631 '  1='
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@33 %31 '  "6  1='  %B%51 ' G1F%6'  "6  E"  "47' E="337 16%  "6  C7>=6%@  6":5  "6  1='  16H%33  "6  &64 2"5
4F %@'  "6  B%?4 %  16H%33  "6 i?F46?  $31 '  "6  "2=46?  "?? %31 '  "6  =1745  %33 %31 '  "6  1H'  =46 %31 '  "6
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%F31  &64 2"5  =46 %31 '  1$ E=" 331 '  =17 45  16 F4 '  463=1 17%F'  C3 %@'  =17 45  4 7%6  % 6@ '48% >163
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! ?6%? 4 2% 13 %":= =1745 4 : %@ 1H%63 46 %@ =1745 =" ? =1745 >6433 E" "47 E" "475 1= ‘‘
D CI %@ 1= =%3F"4? ?F46? 9%66@ 6 4 ?1 "221 5 "2=46? "331 !?F46? 4C:=4 6"2% '%B%6%CI !?F46?
C?? 1F 4 ? C 3 =1745 16H%33 % 6@ 1 % 1 43=4 4 : %@ =1745 "53%6 =1745 "53%6 .C "16
=1745 !?F46?5 "2=46? 16H%33 1H%63 1F%5 E" "47 G61F%6 1= 4@ %C6 =1745 C631 =1745 74 74
1C? %@ !@31 1H%63 ":: 133 =1745 E" :$%" ? =1745 42<F163= 1= !?F46?$ 1$ 167:31 1= 1F%
=1745 1F% 1$ 46<%' 1= E463%6 &64 2"5 %6< %@ 63=C6 E%B%6 475% G61B% =1745 1HH%6 1H%63 1@?
1= "3 =4 % 6@ "331 E" "47 %@F46? !?F46? 466%33 !?F46? % " :5 !?F46? E="32=2133 !?F46? F%
1$ C @ E" "47 1 %5 4 >= 61F % =1745 4 ?$16? 1H E4 <%6 !?F46? 'C .C ">6 =1745 %4B%7%
E" "47 ?475 5% 516 E" "47 ?475 .C "16 !5 C"6%5 =% 4@16 1$ 41> $16 3=% 3@7% H%" :' =% 4;@ "$&5 1$
6"?: 163= $16 3=% 3@7% H%" :' =% 4@ "$$5 1$ "5=1>>5 453 % $1 3=% 3@7% H%" :' =% 4@ "$&5 1$KE % 12< $16 3=%
3@7% H%" :' =% 4@16 1$ 5F%536@ $617 3=% @7%(H%" :' =% 4@ "$$5 1$ C? 1F $16 3=% 3@7% H%" :' 1= "
"2=46? 15"%6 C2< %@ 42<F163= !5 C"6%5 "2=46? 43%6 !?F46? G>5 % (1:%6 G6" 3= 1 43=4 2133 1 " 5
E11 6"2= "2=46? C2< %531 " 1H%63 E11? =1745 F% "46 %5 9@ 4531 "71; 4 7%6 G 3 %"=% (
1 % 1$ 41> !5 CF% !?F46? "33 %31 !5 C"6% "2=46? "::1 5 1= E" "475 !5 C"6%5 1F 4 ? 4C:= 1= '
& %7 7" :' 1H%63 G4631 =1745 U1 !? 46? "331 !?F46? 1@?' E" "47 %%<% 47C% E11 4531= "2=46?
%3316" G% 3%7% 63=C6 '%B%6%CI !5 C"6% ?47 E46%" :' "2=46? '4B"5 (E" "47 G615B% 16 "2=46? % <" 5
47C% 1F?%6 1$ 6 52133 1= 4 : %@ 1$ 3=% 7"45 =1745 617>31 G% 3%7% 4 2% 13 3%>=% 5 1= '
451 1$ C2= E% 12< 1= 6":=3 !?F46? C @ =1745 4F<% =1745 4H6@ =1745 " 1$ 24531 '
1= (3<" 51 '1, 16 1$ =@5"2< 1= 1 " 5 '1$616 1$K =@5"%< "713=@ 4554 3 E" "47 47641>? 1$
6"?: 163= 47C% 4 ?$16? G%16:% =47H6% 1 43=4 E"" :$%" ? G%16:% E4 <%6 E" "47 9@ 4531 ="">> 1 %
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1==' &1F %6 =1745 451 =46 %5 451 =1745 " <5 E" "47 6"?:% "2=46? E4 <%6 "2=46? 64? %@
%I4 ?%6 "?? %31 !?F46? 433=%F%5 C7>=6%@ F% 47C% C 3 63=C6 1 :' 1= 46<% "2=46? % <%5 (
1$ '64@31 =1745 1 %5 1C 5% 16 433 4F "2=46? 34" %65 =1745 1F% 1= 64C 3%6 G% 3%7% "6
E43%6 E" "475 461 %33 "45 "3C5 &64 2"5 1@?' 1= 4F%@ !5 C"6%5 !?F46? 1H" 51 "2=46? 47 "2=46?
'4B"5 1= = 6@433 G% 3%7% 1= !?F46?5 1$ %55% G% 3%74 =1745 46 %5 G% 3%74 6 G1C:= 1$ 3=%
46"5=(1= 1H432= 47C% 1F?%" 1= =46 %31 !5 C"6%; 1= =1745 G% 3%74 1= , 1 (G% 3%74 (
(D &16 3=% "3@4 ?' 1C 3@ 1$ 6"531 ((
=% 4@16 4 ?' =%6"$$5 $16 3=% 3@7% H%" :' "6 E" "47 4 461 %33 "6 "2=46? 463 "6 "2=46? 6C7>%
"6 1= 9"C:=3 "6 E" "47 C33%6HC2< "6 E" "47 %@74 "6 E" "47 %66"2< "6 =1745 !46% "6 1= '
'C?? %531 (9 ":H3$((1= "2<5 E" "47 64HH 15%>= 6%5F"2< H64=47 4C ?%65 E" "47 F@77%6 =1745
''4@ E" "47 42<51 63=C6 463 E" "47 'C=" :' 1= 'C331 13 !5 C"6%5 43=4 "%' 6"B%6 !?7C ?' 6C ?% '
G@%5 %66"2< 1H%63 43%' G%16:% 16:4 !?F46? 12< % 1= 4 ?$16? 47C% E4 "5 =1745 1%K 1= '
CHH 1= 42<F% 1= %474 5 1H%63 '1C?" :' 43=4 "%' 4::%33 1H%63 % %@ =1745 !?F46?$ "2=4% '
1>% "2=46? 1?6" :31 1= 46@(% @ 4651 5 1= 1F% 1= 1@?(% 6@ G"HH5 E" .47 15 %@
G% 3%3=% E" "47 61F %(G% 3%74 (
&16 3=% 1C 3@ 1$ 17%65%33(
1= 16?'!"3`=46?" :' 1$ 3=% 9" :?17% 1$ 6%4 ?' "6 !?F46?' %@71C6 "6 1= @?% =47 "6 1= 7"3='
"6 =1745 643= "6 !?F46? E" ?=47 461 %33$ ("6 1= 6%B" "4 "6 45F% @ 3 "6 1= 16%31 "6
1= 3 46H%(("6 E" "47 4 461 %33$ "6 !?F46? =% ">5 "6 =1745 6"?:%5 "6 E" "47 455%33 "6
G%16:% 1631 "6 "2=46? 463 "6 1= 9 ":=3 "6 =46%5 463%6%33("6 =1745 64B% "6 E" "47 E1:4
(9 ":=35 43=4 "%' 47%6 =>745(364 :%F4@%5 % 6@ 16374 !?F46? 46<%@ 1>31 E@ ?=47 G%16:%
17%6 1= C 3 1= 4 ?$16? % 6@ C %I4 ?%6 C33%6% 1== >%4<% !?F46? 46<% 15%>= 4 :31
!?F46? G16:%5 1= E@ ?=47 E" "47 % @46 5% "16 E" "47 % @46 .C "16 46%F "?74@ 4?F4 4?%6 1 %5
% 6@ 1 E46F"2< 47>$%"? 1= (":: 133 !?F46? 4H%6 E" "47 G16% 11 % &64 2"5 4F %@ G%16:% 1 :'
E" "47 42@'!?7C ?' E" ?=47 4?F" 4 %33 =1745 %6% =1745 46%F "2=46? &1F %5 E" "4"= <%?% '
% 6@ G1?' E" "47 !3=%6"2< E" "47 361?% 1= 466" :31 "2=46? 16:4 !?F46? 1HH5 =46 %5 3%@ " :5
47%5 61C5% =1745 16% 466@ 1@ 1 1= =47> %@5 % 6@ % @ 5% "16 R % 6@ % @ .C "16 % 6@K
E461=?' =1745 4 :31 "2=46? 6155% E" "47 1F46?' E" "47 =% ">5 E" "47 " "46?' ?% %4 3=1 @
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E43%6 4C:=4 =1745 & 1F%6 1= E" "475 1= 16:4 4$74?C<% GF@ % 1= E43%65 1= GC 3%6
4674?C<% 1@? !?F46? F"5 =" ">> 466@ 1?1F.2< %F"5 =46%5 1@? %F"5 1 %5 47%5 466@ "2=462
%$$%6@%5 1= 3%?74 &64 2"5 1@? 1= E4H%1$ E43%6 E. "475 1H%63 C2@ E" "47 1F% 1= GF@ %
1= %F"5 4674?C<% GF@ >% .C "16 45>%6 " %6 .2% 6"2% 16:4 E43<" 5 "2=46? E" "475 %7@ 1 %5
=1745 E" "475 E" "47 1 %5 !5 C"6%5 463=117%F G47%5 GF" % 4C:=4 =46%5 1F% !?F46? G47%5
C:= % 6@ =1745 E" "475 % 6@ 4C:=4 '1?$16 " =@5"2< "2=46? E" "475 1$ =%6H64 % E" "647 E43<" 5
1$ % @6F$%?K %F"5 1@? =1745 GF@ %; E" "47 =" ">>5 E" "47Y E" "475 1$ %% %F"3= E" "47 E" "475
1$ 433% 1= 4?1I %F"5 4B46?(47%5 KE43<" 5 47C% E" "475 =1745 1 %5 % 6@ E" "475 =1745
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%$$6%@%5 =46%5 16:4 1= E43%65 E" "47 =" ">>5 >?1E"2< %F"5 % 6@ 1 %5 4C ?%6 4C ?%65 E" "47
6%F53%6 (E" "47 E@ 3%6 19 6"2% !5 C"6%5 1= %$$6%@%5 % 6@ =1745 E" "47 %6H%63 !?F46? C:=%5
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('4B"? 1@? 1$ E%6 % 47C% C:=%5 1= $%6H%6H 4C:=4 6@5% E43%6 1@? '4B"? 466@ '4 "% !B4 5
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1@? 1$ '1%2%33C6 !B4 ! B4 5 1?%6"2< "2=46?$ =46%5 1@? 1$ 9" $133= 1= 466@ 1$ C75 3" "2=46?
6@5% 1$ '1 ! : E@5 E43%6 1@? $ 6C B.K@ 43=4 G6"$$"3= 1= 9 1F%5 1= 6@5% '4B"? G $$"(3= % 6@
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1C 2" ' 1= ' 16D' C335 1$ 3=% 9" :?17% 1$ 6%4 ? "6 1= ' 4 63%6 9 ":=3 4 ? 461 %33 "6 iB4 ' 1@?' "@ 1= ' 1 4F4@ "6 =1 $%5 153@ ' "6 E" "47' G @ ' "6 1H%63 133I ' "6 "2=46? "??%31 ("6 =1745 G6158% 16 461 %33$ "6 E" "47' E" "475 9""":=3 4 ? 461 %33 "6 1H%63 1:%6 6"2% 1$ F% 9 ":=3$ 1 % ' 1:%6 E=">3 %@' 1 1 % ' =1745 4"5HC6@ 1 1 % ' =1745 E=">3 %@' E" "47' 4 7%6 (=1745 463%6 1:%6 6"2% =1745 4 7%6 1H%63 '4B"%5 E. "47' 1@?' 1= ' 4 : %@ 1= ' 61C:=31 ' "2=46? 153@ ' 1:%6 1@?' 1$ C3=" ' =1743 i@31 ' G%16:% 1>% 1= ' E@ % C:=' G6"$$"3=' F% ' 4631 ' %"62% % 4 3 =1745 iB4 5 =H745 E=">3 %@' 9% 6"2< i@31 ' i?F46? 1@?' 1$(% 3%=1H" ' i?F46? 4B"=5261$3 i?F46? 9@ 4531 ' i?3B46? 16:4 ' "2=46? 466"% E" "47' C33%6' =1. 45(E" "475 i?F46? 6%6%31 ' i5 C"6%5 F% ' 4631 ; 1:%6' 153@ (' i "5 1C :' F"53 %31 ' E" "47' (G6"$$"3=' =1745 %5 %3%6' E@ % 1:%6' 1 %5 1= ' % 4 3 =1745 &1C <%5' 15"45 1 %5 =1745 1@?/ i "5 4@"5 %%5 6"2=46? 1$ F@ GF6" ' 1= ' i?F46@?$ =1745 1@?' 1:%6' % 4 3 C<% 1@ ' E@ % 6@ 153@ ' 1= ' E@ % C %531 ' 1$ "2<=" ' 1:%6' ,4B"%5 1= 611<% % 6@ 1@?' 1= ' 1@? =1745 4"5HC6@ 1= ' E@ % 1= ' C:=' %"62% 1H%63 C7>=6@%5 "2=46? C:=%5 =1745 1631 ' G% 3%7% (G%16:% E@ % "2=46? &1 <%5 =1745 1631 ' G% 3%7% (

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7 @ o o ' 4 F4@%5' =43' 13=" :' " ' 3="5 $3' 21 34" %?' 5=4 ' H%%' 21 536C%?' 31' 4 3%6' 2=4 :% ?%3%6 7" % 16' 74<%
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4 ' H536C221 5' 4 ?' ' % 4@5' " ' 21 %$3" :' 3=% C7 7%5' H@' 3="5' $3' 31' H%% 643%?' 4 ?' 455%55%?f' 4 ' 42%5'
1 534H %F"2<5' ' "B"5"1 5' 4 ?' 133 7% 35' F="2=' =4B% C5%?' 31' H%% 643%?' 4 ?' 455%55%?' 5=4 ' >4@' 4 ?' H%% 455%55%?' " '
5C2=' 1C 3@' C ?6%?' 4>%' 4 ?' E4>% 34<%' 45' 3=% 547% =4B% =%6%31$16% H%% % C5C4 @' 455%55%?' " ' 4 ?' 13'
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G% %64 " 55C% 8 13' GC" 3@' 4 ?' ;C>1 ' 4 @' 55C% .1@ %?' E'4@ :"B%' 3="5' $3' 4 ?' 3=% >%2"4 ' 433%6' " ' !B"?% 2%'
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16' "$' 4' %6?"$3' >455%' 4:4" 53' =">' 3=% ' %$% ?4 35' 5=4 ' 3%21B%3' 3=%<% 6%H %' 1535' $16' F="2=' 3=%@' 5=4 ' =4B%' 3=%
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7 @ o o ' 4 F4@%5' 4 ?' H%%' "3' 4$3%?' H@' 3=% C3=16"3@' 4$16%54"?' =43' 3=% 5%B%64 ' %2%"B%65' G% %64 " F="2=
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F=1 %' C7 7% ?C%' 433' 5C2=' 3@7%5' 1$' 4@7% 3' $617' 3=%"6% 6% >%$3"B%' 46"5=%5' 1 534H %F"2<5' 16' 42%5' F"3=" ' %42='
1$' 3=%"6% 1 %$3"1 5' 5%B%64 ' 2 C"334 2%5' C ?%6' 3=%"6% 4 ?5' F"3=1C3' 34<%" :' 4 @' 3=" :' $16 ' 3=% 547% ?' 3=43'
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2 C"334 2%5' C ?%6' 3=%"6% 4 ?5' 4 ?' %4 %5' F"3=1C3' 34<%" :' 4 @' 3=" :' $16' 3=% 547% F="2=' 54"?' 2 C"334 2%5' 1$'
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5C2=' 46"5=' 16' 42%' 6%5>%$3"B% @' 4 ?' 31' %B%6@' %651 ' 2=46:%?' F"3=" ' 3=%' 5$3?' 1 %$3165' =46:%' 4:4" 53' =%"6%
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11?5' 1$'3=%(F %6' 16'4 @'24@64%" :'4 @' !5343% 3%6%53'16' 61$"33' C ?%6'="7 ' "$' 13'6%?%%7%?' F"3=" ' &1C6%' 4@%5' H@'
>4@7% 3'1$'3=% 4I'4 ?'2=46:% 1$' 3=% ' "536%55% 31'5% ' 6% ?6" :' 3=% B%6> C5' 31' 3=% F %6' 16' F %65' 1$' 5C2=' "536%55%
?' 3=% 54"?' G1 %_16' 1 534H % 16' . 3=" :74 ' "5 =%6%H@' % .1@>%?' 31' ?"536"HC3% 3=% 1 %@' 64"5%?' H@' 3=% 54"?' "536%55%
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H@' E4664 3' C ?%6' 3=% 4 ?5' 4 ?' %4 %5' 1$' =6%%' 16' 716% 1$' 3=% 177"56"1 %65' 1$' 3=43' C ?6%?' 16' ' "B"5"1 ' 433' 1 % 165' U2('
5%451 4H % 3@7%5' 1$' 3=% %46%' 31' 2C33' 4 ?' 5% ' 31' 4 @' %651 ' 16' %651 5' 51% 7C2=' 1$' 3=% E11?' :61F" :' 1 ' 3=% 74@' 2C3' 4 ?' 5% '
E11?4 ?5' 51% 455%55%?' 45'(F" ' >4@' 3=% 55%557% 3' 1$' 55%557% 35' 51% H%="?' 4 ?' C >4"?' 4 ?' 3=% 2=46:% " 2"?% 3' E11?' :61F" :(
3=%6%C 31' 4 ?'(3=43' "33' 5 4$3' 4 ?' 74@' H%% 4F$C ' $16' 3=% %651 ' 4 ?' %651 5' 4 ?' ="5' 4 ?' 3=%"6% 55": %%' 31' F=17% C@%65' 1$'5C2='
C2=' E11?5' 5=4 ' H%% 51 ?' 31' 5% ' 2C33' ?1E % ?"5>15% 4 ?' 2466@' 4F4@(3=%' 547% 31' ="5' 1F>%' C5% 6% ?6" :' 3=% B%6> C5' E11?' 74@' 5%
8"$' 4 @' H%% ' 31' 3=% F %6' 4 @' 4F' 31' 3=% 21 3646@' 13F"3=534 ?" :(U2('547%'6% ?%6" :' B%6> C5 '31' ;' F %6(';' B

7 @ o o 4 F4@%5' 4 ?' H%%' "33' $C63=%6' % 4$3%?' =43' F=%6% 4 @' 4I' 16' 55%55 .% 3' 5=4 ' H(' 2=46:%?' 16' 4"?' A Q /'
>H3' 4 @' @3=%5' 1 5' 1"335' 1$' 4$<%335' !4"6%5' 16' &"5=%6@' 16' 13=%6' C4 ' 61$"335' 13' ?"5364" 4H"%' " ' 245% 3=% 612%%?" :5' F=%6%'
547% 5=4 ' 13' H%% >4"?' F"3=" ' &"$3%% % ' 4@%5' 4$3%6' 5C2=' 55%557% 3' 51% 2=46:%?' 16' 4"?' 4 ?' ?%74 ?%?' 3=% ' "33' 5=4 ' 55%55 7% 3' (
4 ?' 74@' H%% 4F$C ' 31' 4"?' $>I' 3=% 1 %O"16' 1 534H % 16' 13=%6' $$"2%6' 3>%6%C 31' 4>>1" 3%?' H@' E4664 3' C ?%6' 2=46:%?' 13=%6' 61>%63@'
3=% 4 ?5' 4 ?' %4<5' 1$' 4 @' =6%%' 16' 716% 1$' 3=% 177"55"1 %65' 4C3=16"`%?' H@' 3="5 $' 31(5%" % 34<% 4 ?' 5% ' =13' ?"5364" 4H"%(
1% "6"=2H' 1$' 3=% 54"?' @3=%5' 1 5' 4 ?' 13=%6' &61$"335' 51% =46:%?' 45' 5=4 ' H%% C$$"2"% 3' $16' 3=% %B@" :' 3=% 54"?' 4I'
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' 2 o :$16' 3=% H%33%6' >6%B% 3" :' 1$' 5C2=' C .C53' If43"1 5' 45' 7":=3' H%% 12245"1 %?' H@' 5C2=' . %651 5' 45' 5=4 ' H%% '
4>>1" 3%?' %2%"B%65' G% %64'" 1$' 4 @' 3=% C77%5' 1$' 1 %@' :64 3%?' H@' 3="5 $3' 4 ?' 31' 3=% "$3% 3' 3=43' 3=% 54"?' 2%3C$.$1:' 2)-+'
! %2%"B%65' >% %34 ' 74@' 6%3C6 % 4' 36 % 2 7>3 " 31' =73%' 4.%53"%5(' 1C63' 1$' I%H%3>."% ' 1$' 5C2 ' C77%5' 1$'
=1 %@' 45 5=4 ' H%% 6%2%"B%?' H@' 3=:7' 4 ?' %B%6@' >$' 3=%7' 3H%"6% 4 ?' %B%6@' 1$' 3H%"6% ' %>C3@' 4 ?' ' %>C3"%5' %%' "3' 3 %%.<2% 8%-'
$C63=%6' % 4?$%?' H@' 3=% 4C3=16"3@' 4$16%54"?' =43' "$' 4 @' %2%<%6' G% %64 "' 5=4 ' 6%3C6 % 6 %63"$@' " 31' 3=% 54"?'

1C63' "@' C77%16' C77%5' 1$' 1 %@' 31' H%?' " ' 466%46% \.4 ?..' C >4"?' 4$3%6' 3=% 547% =4B% H%% % 6%2%"B%?' %"3=%6'
H@' @C =' %%%"B%6' G% %64'" 16'(H@ ="5' ' %>C3@' 16' ' %>C3"%5' 16' 4 @' 1$' 3=%7' 16' 5=4 ' 24C5% 4 @' %651 ' 16' %651 5' 31'
H%% 5%33' 5C>%6' " ' 3=% 54"?' 1C63' $16' 4 @' C77% 16' C77%5' 1$' 1 %@' 3=43' =43=' H%% % 51% 6%2%"B%?' 3=43' 3=% '
%B%6@' 5C2=' %2%"B%6' G% %64'" 5=4 ' 1%"3%M31' %B%6@' %651 ' 4 ?' %651 5' 3="3' 5=4 ' H%% 71%53%?' B%I%?' 16' ?474:%(?' %H43.631; 563@3'
H@' 6%451 ' %$' 5C2=' C .C53(%63"$"243% %3C6 %' 16' 5%33" :' C>%$' 3=% '474:%5' 3=43' 5=4 ' H%% 3=%6%H@' 12245"1 %? 3=%'
54"?' '474:%5' 31' H%%' 6%21B%6%?' H@' 6" "1 ' 1$' >%H3'(" ' 4" 3' 16' $16 74?1 ' " ' F="2=' 1% !551": % 613%_"1 '
>6' K 4:%6' 1$' 4F' 5=4 ' H% 4 1F%?' 16' 4 @' 716% 3=% ' 1 % 7>46 4$"2% 4 ?' 5=4 ' 4 m1' $ 6$%"3% 31' =%"6% 4.%53'%5 % 43@31'33%"6'
=%"6% %"6%5' 4 ?' C22%55165'3(=% C77%3=43' 5=4 ' H%% 51% C .C53 @' %63"$@%?X6' 6%$C7%?' 16' 24C5%?' 31' H% 5%33' 5C>%6((

2 7' H%% "33' $C63=%6' % 4O%?' H@' 3=% C3=16"3@' 4$16%54"?' =43' 3=%(54"?' &1C6% OC463%6 @' 4@7% 35' 1$' % =C ?6%?' QQQ(
3="63@' 5%4B% '(3=1C54 ?' 5"I' =C ?6%?' $163@' 1 % 1CC?$' %":=3%% % 5=" $" :$ 3F1' >% 2%' H@' (3=% >>%3=' 471C 3" :' O""463%6 @' 4@" % 35'
" %42=' 1$' 3=% &1C6%' OC463%65' 31' 3=% C77%' 1$' &1C6% =C ?6%?' 4 ?' 3F% B% (3=1C54 ?' " % =C ?6%?' 3F% 3@' $"B% 31'H%' 74?%' 31'
>1C ?$' $1C63%% % 5E :$ 4 ?' 5"I' >% 2% 5=4 ' H%% 455%55%?' 21 %O%?' $%B@%?' 4 ?' >4"?' 31' 3=% %2%"B%6' G% %64'" ' %2%"B%6' G% %64 ' '
1$' 3=%' 5%B%64 ' 1C 3"%5' 3==$ 5=4 ' H%% 4>>1" 3%?' H@' 3=% 3@7%5' 7% 3"1 %?' 46$?' %3>6%55%?' ' " ' 3=;5 $3' 4 ?' 5=4 ' H%% 4 ?' 74?' 5%
' >4"?' H@3=%' 54"?' %2%"B%65' G% %64'" " 31' =%"6% 4.%53"%5 %2%">3' 1$' 3=% !I2=% C%6' F"3=" Y F% 3@' '4@%Y' 4$3%6'3=% 4$3%6' 3=% 4 ' 3=% 3"7%5
54"?' 3@. %5' 7% 2 %?' 4 ?%I>6%55%?' " ' 3="5' O' (H%%(%64 ' C ?%6' 3="5

2 o' "3' $C63=%6' % 4$3%?' =43' %B%6@' % %"B%$' G%=%64 ' 31' =%% 4>>1" 3%?' H@' =%"6% 4.%53"%5' H@' %63C% 1$' QQQf(G% %64
3="5' ?" H%$163' =%% % 3%6' C>1 3=% !I%2C3"1 ' 1$(3="5' $$"2% 5=4 ' H%21 7% H1C ?' F"3=' 5C$$"2"% 3' C6%3"%5' 831' H%21 '% 1C ?(
4.%53"%5' H%$16% 3=% 16?' .:=' 6%45C6%# 6 16?$' 177"55"1 %65' 1$' 3=% 6%45C6@' $16' 3=% 3@7% H%" :' " ' 5C2=' 1 ?'3"1 ' 1$' 1 ?'
(C77%' 16' C77%5' 4% 3=% 54"?' 16?' 6%45C6%6' 16' 16?5' 177"55"1 %65' 5=4 ' ?6%$$' F"3=' 21 ?"3"1 ' 3=43' =%%' ="5' W (
M %"6%5' !I%2C3165' ?7" "53643165' ' %>C3@' 16' ' %>C3"%5' 5=4 ' 36C @' 4221C 3' 433?' >4@' 4 ' 4 ?' %B%6@' 5C2=' C77%4 ?' (
(C77%5' 1$' 1 %@' 45' 5=4 ' 217%' 31' ="5' =4 ?' 16' 45' =%% 5=" ' 74@' 16' 6%451 4H @' 7":=3' 6%2%"B%' 16' H%% ' 2=46:%?' (
F" =' H@' 3="5' ?3' 21 %7"4:' ="5' 54"?' $$"2%' 1$' %2%"B%6' G% %64'" " 31' 3=% %2%">3' 1$' =%"6% 4.%53"%5' !I2=% C%6'
433' 3=% 3@7%5' " ' 3="5' ' 6%5>%$ "B% @' @7"3%3'" 4 ?' 4>>1" 3%?' $16(3=%' 547% 4 ?' 31' ?1% 4 ?' >%6$167% 4 ' 4 ?'
%B%6@' 13=%6' 3=" :' 4 ?' 3=" :5' =%6 H@' 6% C"6%?' H@' ="7' 31' H%%' ?1 % %I%2C3%?' 4 ?' >%6$167%?' %B%6@' 1$'(F="2'" 1 ?5' C2=' 1 ?'31'H%' '
5=4 ' H%% $163=F"3=' 364 57"33%?' H@' 3=% 54"?' 16?' ":=' 6%45C6%6' 16' 16?5' 177"55"1 %65' 1$(3=%' 6%45C6@' 31' 3=% 2F '
$$"2%' 1$' 3=% 9" :5' %7%7H64 2%6' 1$'(3=% !I2=% C%6' 31' H%% 3=%6% ?%>15"3%?' ' ' (

7 @ o o' 4 F4@%5' =43' 1% %651 ' 5=4 ' H%% 24>4H % 1$' H%" :' 4' %2%"B%6' G%=%64 ' H@' @%63C% 1$' (3="5' $3' QQQ (
F=1' =43=' H%% % %2%"B%6' G% %64 # 1$' 4 @' @?5' 16' C77%5' 1$' 1 %@' =%6%31$16% :64 3%?' 31' =%"6% 4.%53"%5' H@'
'4 @' $3' 1$ 46"47% 3' 4 ?' 5=4 ' 13' .555%' '="5 D2217>3' 3' (HH34" % ="5' OC"%3C5' >C3' 1$' 3=% ">% $%6' 3=% 547% G(% %64 ' C ?%6'3="5

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4 ?' >61?C2%' 4' %63"$"243% 3=%6%1$' 31' 3=% 16?' ": ' 6%45C6%' 16' 1633% 1 7 7 "5(5"1 %65' 1$' 3=% 6%45C6@' H%$16%' 3=%

%2%"B%6 G% %64 '31(' 453' ' 4@' 1$' 6" "3@' %6 7 % " ' 3=% %46%' 1$' 1C6' 16?' ' 3=1C54 ?' 5"I' =C ?6%?' " %3@' 4 ?' 3F1(' 61B"?%?' 4 F4@%5'

% 3%6' %63"$"243%' 1$' =43' %B%6@' 5C2=' %2%"B%6 G% %64 " 31' H%%' =%$%H@' 4>>1" 3%?' 5=4 ' C>1 ' 3=% %2%">3' 1$' ="5 1 7 7 "55"1 ' $16' 3=%

="4' 4 7 %4 ?' 42%' 54"?' $$"2% % 3%6 4' %63"$"243% 1$' =" 5 4 7 %' 4 ?' 42% 1$' H1?%' " R 3=% 54"?' $$"2%' (1$' 3=% %6<%'1$' 3=% % 5

1$' H1?%' F"3=' (31' 3=% +' 3=43 3= ' 54"?' %6<%' H@' =" 7' 16' ="5 ' %>C3@' 16' G %6<%5 " ' 3=43' $$"2% (7 4@' =4B% 3=% "%4 %5' $6133"

%6<' 1$' 3=%' % 5(3@' "% (31' ' 31' % C"6%' 1$' 3=% %6$16" 4 2% 1$' 3=% 6C53' 1$' 5C2=' %2%"B%65' G% %64 " 6%5>%? "B% @' " ' 3=% '3

5 ' 1$'K3=% 1 %@' H@' =" 7($". 7' 3@ 7 % 31' 3@ 7 % 6%2%"B%?' " 31' 3=% %2%">3' 1$' 3=% ! I2=% C%6' 4 ?' C>1 ' 4 @'

' ' %$4C 3' 1$' %: %?' 16' ' %$4C 3' 1$' 5C2=' 4@ 7 % 3' 31' " $16 7 % 3=% 54"?' 16?' ": =' 6%45C6%6' 16' 16?$' 1 7 7 "55"1 %65' 1$' 3=%

4@ 7 % 3' H@' 6%45C6@' 3=%6%F"3=' 3=43' 4' ?C% 21C65%' 4 ?' 6% 7 %?@' 7 4@' H%%' H@' 3=% 7' 4>> @%?;' 45' 3=% 245% 7 4@' 6% C"6%

%2%"B%6 ' 612%%?" :5(

>>>!0 ' 2 o' H%%' "3' $C63=%6' % 4 %?' H@' 3=% C3=16"3@' 4$16%54"?' =43' 1%' 1 7 7 "55"1 %6' 16 1 7 7 "55"1 %65' F=1' 5=4 ' H%%'

1 7 7 "55"1 %65' 13' "7> 1@%?' =6 3=% %I%2C3"1 ' 1$' 3="5 ?"' 5=4 ' H%%' @%4H % $16' 16' H@' 6%451 ' 1$' 5C2=' ! I%2C3"1 ' 31' 4 @' 1$' 3=% % 4 3"%5'

"4H %$16' % 4 3"%5 (7% 3"1 %?' " ' 4 ' $3' 74?% " ' 3=% $"B%' 4 ?' 3F% 3"%3=' %46%' 1$' 3=% %": %' 1$' 94 :' =46 %5' 3=% %21 ?' % 3"3C %?'

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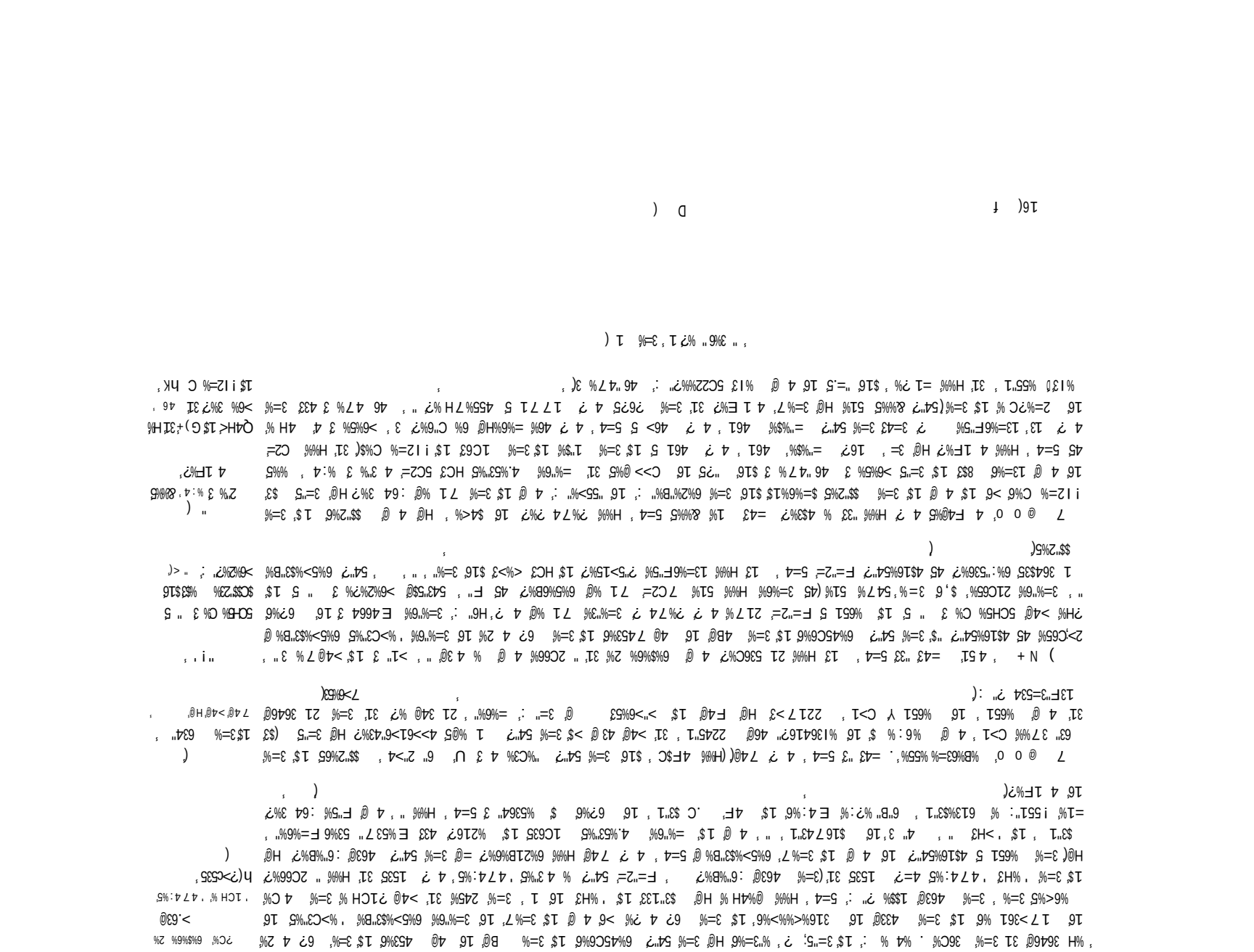

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3=%6%1$ " ' 51 7% 11<' 31' H% <%>3 $16 3=43 >C6>15%' ? %B%6@ 5C2=? >%651 ' F=1'(5=4 ' %: %$3 31' 4>>%46% 16' 5=4 '
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16 34:% 142=' 16 142=%5 81B%6 4 ? 4H1B% 4 @ 13=%6 5C" ' F"3=' (F=-"2=' =% 16 5=% "5 2=46:%4H % H@('3=-"5 $3 '
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" %3@ 3F1' 3=% 5C " 1$ 3% ' >1C ?$ 1 ' 3=% 3="6? ?4@ 1$ C:C53 " ' 3=% 54"? @%46% % 3=1C54 ? '5"I' =C ?6%? " %3@
3F1' 3=% 5C7' 1$ 3% ' >1 >?$ 1 ' 3=%(3="6? ?4@ 1$ 1B%7H%6 " ' 3=% 54"? @%46% % 3=1C54 ? 5"I' =C ?6%? " %3@
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>%651 ' \=13]' H%" :' 4' =1C5%=1 ?%6' 13' =4B" :' 4' 2%634" ' > 42%' 1$' 4H1?%' 4 ?(4$3' 5%6@4 3$' 5=4 ' H% 34Q%?' 433' 3=% F=%6% C2=' %63"$"243%' 594 ' H% 74?%'8F="2=' G43=' 3=% ?' C53"2% 1$' %42% "5 =%6%H@' 4C3=16"`%?' \31]' 4?7" "53%6 ' 3=% '
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3=% >%651 ' >6' >%651 5' 51' ? CH@' 2=46:%?' 5=4 '$16' 1 ' \7 C2=]' 45' 5=4 ' H% 2%6?$@>?' H% ?"52=46:%?' " ' %B%6@' 13=%6' 1C 3@' "3@ '16' 42% ' -.>2H46:%?" '%B%6@' 13=%6' 1C 3@'
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13' H% 34I%?' 4 ?(3=% 54 7 % H% >61B%?' H%$16% 3=% 17"55"1 %65' >6' 3F1' 1$' 3=% 7' 16' 3F1' C53"2%5 ,' 3=% %42% 1$' '55%55 7 $% 3f
3=% 1C 3@' F=%6% 5C2=' >%651 ' ?F%" %3=' 16' 6%5"?%3=' 433' 4 @' 3" 7 % F"3=" ' 3F% B% 1 3=5 % I3' 5C%" :' 4$3%6' 5C2=' 34I43"1 '
7 4?% %B%6@' >%651 ' 3=43' 5=4 ' 51% %524>% $6H 7' 3=% 54"?' 34I43"1 ' 4 ?' >4@ 7 % 3' 5=4 ' H% 2=46:%?' C>1 ' >61 $' 2=46:%?' ?1CH %
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(" 7 "33$' 16' 3=%(74.16' >463' 1$' 3=% 7' 5=4 ' 34I' 4 ?' 455%55% %B%6@' 13=%6' 17"55"1 %6' .1@ %?B@"3=' 3=% 7' 4 ?' 3=% GH 7"55"1 %65' 13'%6
F"3=" ' 3=%"6' ?"B"5"1 ' 5=4 ' 455%55' %B%6@' 55%5516' F"3=" ' 3=%"6' ?"B"5"1 ' 4 ?' 45' F2 ' 4 ' 075' C>1 ' %B%6@' 1$' 3=% 54"?' 17"55"1 %65' 4 ?' 17"55"1 %65' 4 ?
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16' >%651 5' 1% 6%$C5%" :' 7 ' %: %$3" :' 3=%"6' ?C3"%5' 4 @' $" % 13' %I2%%?" :' 3F% 3@' >1 ?$' 1' 4 @' 1."% 1$$% 2% 3=% UL 7 7H5'1 %6' 74@'
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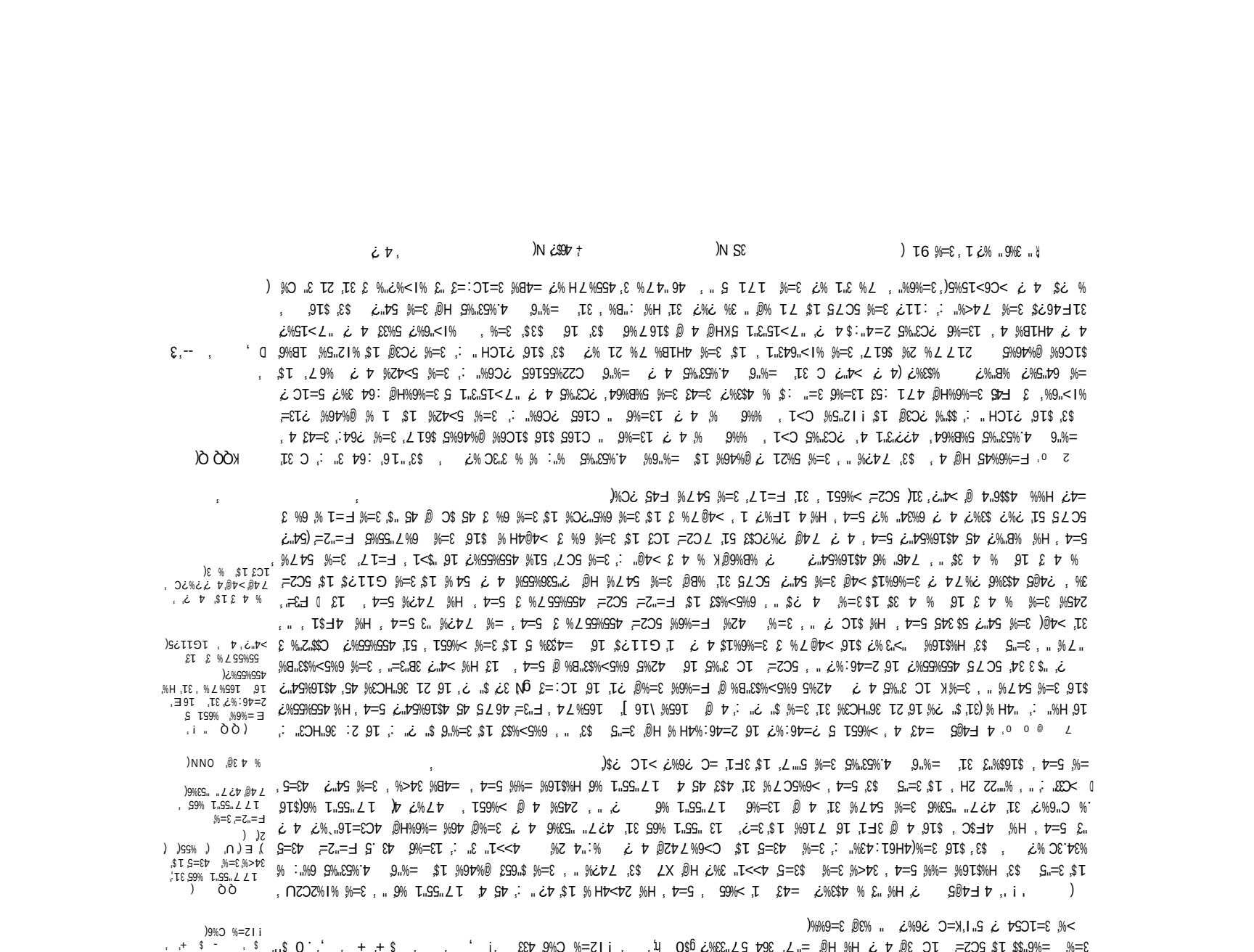

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4 ?$ 1$ 5C2=' "=:=F4@ ? 3=43 "$ 4 @ &" % % 4 3@ 16 &16$%"3C6% "7>15?% 1 ' 4 @ 46"5=' 16' 42% $16 13 6%>4"6%" ;'
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>%"2"4' %5 > 5 4 ? 3=% 54"? C53"2$ 16 4 @ F1' 1$ 3=%"7' 46% =%6%H@ "6 >1F%6%? 4 ? 4C3=16" H@' E4664 3
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4 ? %6%?"347% 3$ 16' 4 @ %651 4'i5343% C5C4 @ 643%4H % 31' (3"=% 116' F"3=" ' 4 @ 5C2=' 46"5=' 1F $5="›' 47 %33 16' 13=%6 > 42%' 5=4 ' H% 74?%' %B"%?' 21 %$3%? 4 ? 4 1F%?' H@' 5C2=' >%651 5'4 ? " ' 5C2=' 74 %6 45 3=% 54#' C53"2$ H@' 3=%"6 6?%6 433 5C2=' %55"1 5 5=4 ' ?"6%?' 4 ? 4>>1" 3' ' 3=43 H%=4 $ (? 3=% 6631$'%@ 3=%6%H@ 1 "%'64'%?=1F 64"5%? 5=4 ' H% %7> 1@%? 4 ? 4221 7>3%? $16 42216?" :' 31' 3=% 6?%65 4 ? '"6%?"1 5 1$ 3=% 54"? C53"2$ $16(4 ? h21C 3%? $ 31F46?$ 3=% 47% ?" :' 6%>4"6" :' >4B" :' 2 %4$ 5" :' 4 ? 5C>>163" :' 5C2=' "':=3B4@5(3":5 %$5 36%%3$ 4B% 7 % 3$ 4 ?(6"?:$ $61 7' 3'7 %' 3' 7% 45 %%? 5=4 ' 6% C"6% ? 3=% 54"? 55%55 7 % 3$ 5=4 ' H% %B"%? H ?"536%55% 4 ?'5? % 1$ 3=% G11(?$ 1$ %B%6@ >%651 ' 5i' 455%55%? 8 13 >4@" :' 3=% 547 % F"3=" ' 3% ' ?4@5 43%6 ?%74 ?' 6% ?6"6":' 3=% 1B%6> C5 1$ 3=% B4 C% 1$ (3=% G11?$ 51' ?"536#" %?' 31' 3=% F %6' 4 ?' F %65 3=%6%1$ 83=% %2%5546@ 2=4 :% ' 1$ 7 4<" : 4 ?' 5% " :' 5C2=' ?"536%55% H%" :' $"65? ?%?C?%? (' 6

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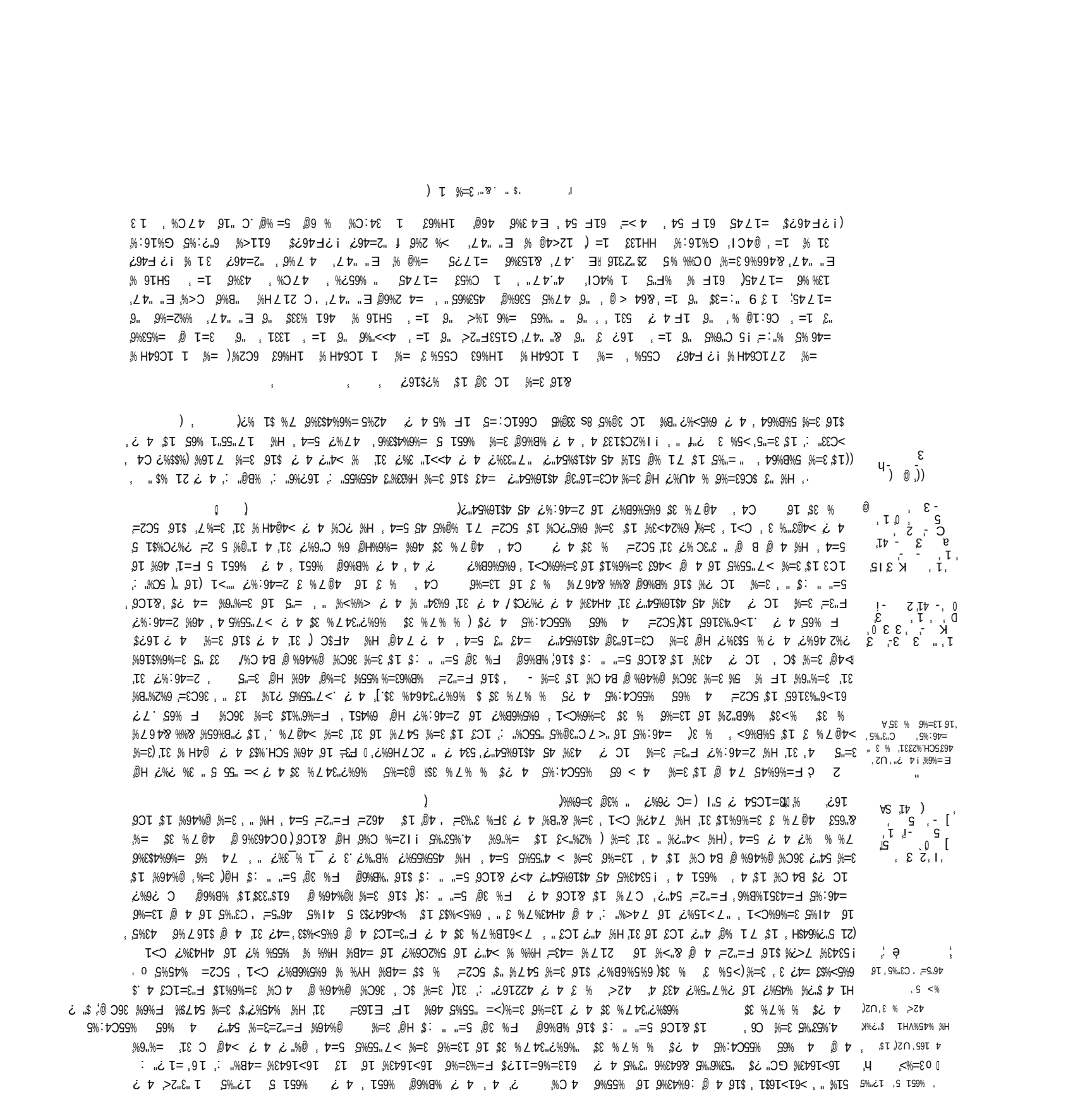

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E%531 ' 1= ?71 ?$ 1H%63 %% &% "1' 4 B%6?(G%1 6:% 4:64B% 1= ' %4212 % 1= ' 47%5 1C 31 ' 4 B%6?(G%1 6:% 4:64B% 1= ' %4212 % 1=

&16 3=% 1F % 1$ %?$16?

=% ' "":=3 1 1C. H % "6 1= ' 6 16 >%4<%"6 1$ 3=% \ 1 1C64H %]' 1C5% 1$ 171 5 &"65? 16? 17"55 1 %6 1$
; 3=% G6%43 %4 % 1$ ¡ :: 4 ? 4 ? 1 % 1$ =%"6% 4.%53"%5 7153 1 1C64H % 6"B@% 1C 2% ' % 6@ i46 % 1$ 346 " :'
1$ 3=% 9" :?17% 1$ 2134 ? 1 34:C% 16?; 166"5 1 % 4 ? %"6%'4>>46% 3 1$ 47%5 i46 % :$ H" :31 '3=%
1 1C64H % l % 46?% G6%% B" ' i5 C"6% "6 C7>=6%@ &1553%6 "6 1= ' 31 %=1C5% "6 =1745 '64>%"6 "6 E" "47'
"2=' "6 % 6@ E" 2=217H% "6(=1745' 46:%5 "6 i?71 ? &%33"> 42% "6 1= ' 1HH@ "6 3=1 @ 64B% '
"6 C7>=6%@ % ' "6 E" 1C:=H@ 531 ' "6 E" "47' 9% ?6"2<% 46? %33$ "6 % 6@ &4 % 9 ":=3 1$ 3=% 43='
"6 =46 %5 163%6 "6 1H%63 @% "6 :%6 1H % 4@ "6 i?F46? 166%"5 "6 E4 3%6 46:%5K "6 =6"531>=%6
E6% ' "6 E" "47' E =">3 12< "6 1 43=4 ' 4@71 ?' "6 G%16:% E" 1C:=H@ "6 =1745' '1 % "4 ' "6 =1745
64B"% '9 ":=3$ E" "47' %6$"51 ' '13316 " ' ,"B" "3@ 4 ? 4536%6 (1$ 4" 3 61554% E" "47' 31 %=1C5% 1= ' 4 ?@
% 6@ 46<%6 % 6@ %B" ' 1= ' 62=%6 "2=46?; % " ' "2=46? ?F 63=' "2=46? 1>%5 E" "47' =%"6@ i?71 ?
&%33"> 42% % 6@ 9" :574 ' =1745 %?3B% ' 47%5 31>%=1 5% =46 %5 G:66467 1= ' 4<% G64@?' 1$35 6":=3F% ' 4C'
', 4 31 ' % 6@ &4"64!' 47%5 4C' G"$$16?1$ 55167 4 $%'? 42=% ' =46 %5 &%33"> 42% 4C' 4 31 ' .C "16
(1= ' %>%5 @ 1= ' 34 ?" :% "2=46?' @% =1744'G11? 42<% =1745 &%33"> 42% 47%5 &%6613 3 E" "47' 46<%6 1$ C " :'
D =1745 "2<6"?:% i?71 ? E"5%74 ' % 6@ %@" :% "71 ' 46210C63% 1:%6' '64>%6 "2=46?' % % 5 E" "4' % % 5
1= ' E=">3$%"?' 47%5 4@%5 i?F46?' =%6F>1?' i?71 ? 4@%6' 4>"53 4@ "2=46?' 1C3=H@ =1745 GC 3%6' 5% "16
=1745 C6 %6 1= ' 1C3=H@ =1745 1C3=H@ =1745 %%' &64 2"5 E=">3% 1= ' E="3F"2<% =>745 ' 1 %74 "1745 '
%@ 71C6'(=1745 ">>" :% .1:%6 9 ":=3% 1= ' C7 %6 =6"531>=%6 E" 1C:=H@ E" "47' ??%6 %@ 1= ' E4 "5 '
1 1F4@ 1H%63 ?@133 E" "47' :% ' %6 @ 1= ' E" ?74 ' 5% "16 =46 %5 61<% 1= '
E" ?74 .C "16 "2=46?' 6"2<% ?1 '.C "16 63=C6 5 1F% =1745 G%664?' =1745 46F11? E" "47' 7"3=' =1745
D 6"2<% ?1 ' 7"3=' % 6@ 4 % ' =1745 146?' 43=4 '9 ":=3% 463=1 17%F% ">>" % 1= '&" 2=%6 ="">>'
E%531 ' 1= ?71 ?$ 1H%63 %% &% "1' 4 B%6?(G%1 6:% 4:64B% 1= ' %4212 % 1=

D

%4<% E" "4', % ' E" "4', 1C 34:C%' %6.%4 3 433 4F% E" "4', =%@ % =1745 42<%33 1= ' C 217H% 1$ 6%43% 6"2<=" ' %14 ?%6 '% 31 ' =17 45 @:133 1= ' 46<=C653% =1745 %F%5 %"16 =1745 %F%5 5% "16 =1745 %F%5(.C "16 (=1745 %66" :%6 1= ' 42."F% ' i?FF46? C7$86%B" % 1:%6 6"2% 1= ' E ="33%F6% :' "2=46?K'G6%% B" % C??
"2<%6" :(1= ' "$"""2% 3(47>51 ' 46<% E" "47' &1636@ =17 45 ' C2<%33 =1745 C2< 1= ' 4:46 E" "47'
E 45%' 45" 6% 3 =46 %5 3455I6? "2=46? . :1 ?%5H@ 1H%63 ' 167%6 1$ ' 1631 ' i?71 ?' E4 %6 T$ G6%:H6"%5
4@%6' 5% "16 E" "47' &1633 "1745 3166(i?FF46? %%?%5 =1745 62=%6 E" "47' 4@%6(.C "16 G" H%63 E":' 716%
3=1 @ =17>51 ' =46 %5 461 @66% ' 4 31 ' =1745 ' 4@ =1745 2436% 1= ' 1B%5 3=47' 7"3=' 47%5 '
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466"51 ' 1= ' 463%6 1H%63 45%H1>6 % 1H%63 & 42< =1745 6C??@ 2=' G% 3 %7% ' ;' '
4 3 1$(F4$$=47' ..i5 C"6% 1= ' 174 ' i5 C"6% GC@ =4>74 'BC %6 G% 3/

&16 3=% "B%65"3"% 4 ? 1F % 1$ 47H6"?:% '0

= ' &"2% =4 2% 16 4 ? 3=%(4@16 $16(3=% 3@7% H%" : =% 1 1C64H % 1= ' 1C 34:C ' 6 " ' ,"B" "3@ "6 (
' =1745 ="2=% %@ 9 ":=3%' "6 1= ' 1331 461 %33 =% 1 1C64H % i?FF46? &" 2=' =%' 1 1C64H % % 6@ 1@ %
G64 421' ":133 i5 C"6% 15%=' %4C71 3 C7>=6%@ G1F%6' =1745 71 3 1= ' 4 ?%6531 ' 1= ' 1B" ' =1745
4" H6"?:% ' 1 3165 1$ ',"B" "3@ ;' ' 1?%6"2< G%16:% 1% ?% '(E" "47' 11<%' '1G165 1$ "B" ' 4F%(
4 $%" ? :74 ' i5 C"6% 47C% ' %F31 ' =1745 316@ =1745 i F%=' 5442 E43" :31 ' 1$@' %>@5 =1745
&1F %5 =1745 &1Q' 1= ' 4:% ?%67% ' 47%5 1= 51 ' 5442' %F31 ' 47C% ' %6 % i5 C"6%5 '1?316 G6%% %
&64 2"5 1??' G% #/ ' (' M

&16 3=% 5% 1$' i @/

=%' ":=3 1 1C64H % "2=46?' 16?' G16:%5 1$ 3=% 9" :?17% 1$ 6%4 ?' "6 @1 %' E4 ?% ' 15"4=' 1 B" '
=1745 i?F467$ @1 %' E4 ?% ' 1:%6 % " :$ 5% "16 4 >=' %"651 ' @71 ' C631 ' 1= ' 47>" ' 1:%6 % " :$ '
.C "16' 1H%63' F4C% =46 %5 46 %3%% =1745 E"5%74 ' E" "47' &1636%@ 46 %H1C6 % 466%' E" "47' 1C6 % 1= '
F% B%5 =1745 1F%65 % 6@ G1126"2=' ":"57C ?' 6$4167' &" "47 465=' =1745 466"51 \G% 3 %63C% 43$16?
3=1 @ 4771 ?' i5 C"6%5 1H%63 '64<% "2=4(% %4 %% .":2=' 51 ' % 6@ &.%32=%6 1 ' 461F% 1= ' G"HH1 5 433=%F '
1$316' >% 2%6 '%4 % 1$ i @' '1$316 % 6@ "32=' '1?316 E" "47' 4447' '1?316 E" "47' 11<% '4B"?
C33%3%" ? % 6@ 16<%6 1$ 461F% "2=46? 3@ %1$ C6B" % %7% 3 %?"?" :3 'E" "47' " ',C "16 1$ E% ?1B%6
E" "4 ' " @46 45 4@ 16' 1H%63 E%%?% ' G% 3%7% ! (' '

&16 3=% 1F % 1$ C2<" :=47' (; ' '

=%' 4@ "$$% $16 3=% 3"7% H%" :' "6 "2=46? %7> % 9 ":3% 1$ 3=%' 43=' 4 ?' 461 %33 "6 4 >=' %6 %@ 461 %33
%14 ?%6 '% 31 ' % 6@ ?6%F%5 i?71 ?' '46% ' i?FF46? 43%5 E" "47' C5H@ 1= ' 1:%65 ' i5 C"6%5 C:=' 1
i$ "%65%@ G%16:%('4 2%6' E" "47' 463 %@ % =47' 4 ?F% ' G% 3%7% /

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&16 3=% 1C 3@ $ =%536%6 /
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=%' ":=3 1 1C64H % "6 1= ' 6%B16 >%4<%6 1$ 3=% 1 1C64H % 3=% 1C5% 1$ G1715 &"653 16?' 17"55"1 %6 ' '
1$ ' 3=% G6 43 %4 % 1$ % i : 4 ? 4 ? 1 %(1$ =%"6% 4.%53"%5 7153 1 1C64H % 6"B@ 1C 2% ' "2= 6?' 16?'
"5210 3 12=%434/ 1 %' 4 ? %"6% >>46% 3 1$ =1745 i4(6"% "B%65" =46 %5" 16?' 64 ?1 ' % (4 ?' %"6%'
(>>46% 3 31' 3=% i46 % 1$ 422 %55%" ?' 1 34:C% 16?'(166"5' 1 % 4 ?' %"6% >>46% 3 1$ 3=%'i46 %' 1$ H" :31

', " 3%6" %? 1 ' 3=% 1 (0 ' - N(17"35(

G%16:% 16? '%47%6 1"7% 4 ? %"6% >>46% 3 1$ 3=% 46 % 1$ E466" :$1 =% 1 1C64H % G%16:% 113=(=% 1 1C64H % G%16:% =1 71 ? @ "6 =1745 %B%5 "6 =1745 G6>5B% 1C6 "6 E" 1C:=H@ 531 "6 %3%6 E46HC631 "6 1= 4" %F46%" : " =1745(% 13 "6 "2=46? 611<%5 "6 1H%63 ('C2<% $%"? "6 1= E%6?% "6 63=C6 1@?% 461 %33$ "6 1H%63 1331 9 ":=3% 4 ? 461 %33 X "6 %$$%6@ =4 <%6 @ "6 1= 6?%6 %("6 1= 6%F "6 1:%6 C$%531 "6 E" "47 G%: ":= =%6"$$% 1$ 3=% 54"? 1C 3@ "6 "2=46? %B" : "6 "2=46? %@ 1?59 ":=3$ =1745 'B%5 1 34:C% '64<% =1745 1331 43=4 "% 113= 1$ 1364=" 1= %":= 1$?" :31= %3%6 %":= 1$ 113=5 =1745 %% 1$ '46 %=4 E" "47 4F31 1:%" E="3% %@ 1$ %% 1=(E466% E" "47 '4B% >163 =174(5 '4 "% 1= " 1$ 4: %@ "2=46? %":= %3%6 611<%5 G%16:% 113= %3%6 =46<%6 %@ >= 6%F% W !?F46? " 5=4 1:%6 4" %F46%" : =1745 '1>% 1:%6 E" H64=47 %3%6 E" H.4=47 4 ?% E" H64=47 47C% '4B% >163 ;G%16:% :71 "2=46? %"53%6 1= '4B% >163(47C% '4 "% =1745 453%51 47C% &" %@(=46 %5 C6 %531 1= 4F31 1= =%3F11? =1745 E="3 %@ =1745 F%%3% =47 !?71 ? 1?6% C53" %":= =1"=45 ?%65%@ 43=4 "% %% E" "47 " 5=4 %:" 4? 6%3 4 ? "2=46? E 6":=3 1= G1?57"3= =1745 G=% 3 %216?%6 1$ \ 1C %31 0 >= % 4H %5 E" "47 'C% 5 1= "2<%6" : !?71 ? F%3% =47 4F6% 2% E6":=3 E" "47 E="3716% G%16:% C2@ 47C% 46?F46% 15%>= 12<% =4 1= 45<%6B"% =1745 C 5 R 1= 46<%6 % 6@ 64?5=4F% E" "47 42<51 '1$316 1$ =@5"2< G%16:% '1?? "2=46? 751; =1745 43=47 E" "47 G%: 1$ G64 :% 1= 46?F46% !?F46? =16 @261$3 !?F46? E6":=3 1$ 36%331 =1745 1?? 1$!?:%(1= ":" H13=47 '1?? K1$ 1I31 !5 C"6%5 =% 4@16 1$ 422 %5$%"? $16 3=% 3"7% H%" : =1745 %":=% %216?%6 1$ 422 %5$%"? =1745 E6":=3 C53"2% E" "47 1E% =1745 C 3 1= 4: %3%6 E6":=3 ? % 6 7 % &16 3=% "33@ 4 ? 1C 3@ 1$ 3=% "33@ 1$ =%53%6 ʻ (=% 4@16 (1$ 3=% 54"? "33@ $16 (3=% 3@7% H%" : "6 E" "47 RE" "475 9 ":=3% 4 ? 461 %33 %216?%6 "6 =1745 G615B% 16 "6 "2=46? %B" : 461 %33$ %3%6 =42=%6 %@ 1:%6 E="3 %@ C:= G615B% 16 1:%6 153@ 1$ 6C7H1 G6"$$"3= E" "475 !5 C"6%5 =1745 E4" %F6":=3 '1?16 1$ 4F% E" "47 36%%3% =1745 E" 2%32<% KE" "47 2% G%16:% 4 F46" : %3%6 !?E46?$ E" "47 E" 51 C:= 346<%@ &64 2"5 <% %6 % 43=4 "?. E" "4751 ?%67% 15%>= 4??12< 5 1= C661C:=5 =%6"$$%5 E" V 7 % % 6@ % %33 E" "47 (%C %33 %3%6 % %33 ?%67% 4>34" % 1= >46<% 1= C 31 =1745 4 ? =1745 E6":=3 E" "47 346<%@ 1= 1= 51 % ("2=46? C 31 C "531 463" :31 433=%F% ?%631 .C "16 !?F46? 346<%@ "2 34>? " 5=4 1 43=4 E="3H@ 1= G1 H1C6 % 1H%63 %66%@ !?F46? 4 " :31 4 ?% 43=1% 1= E466" :31 1H%63 '%" 3"%3= =1745 4??1I "2=4% 1= 51 =1$$"45 E46? 47C% %43=% =1745 E46 76":947 G% 3%7% f

&16 3=% 1C 3@ 1$ 16 F4

=% ":=3 1""1C64H % C:= 1524F% !5 C"6% 1 % 1$ =%"$% 4.%53"%5 7153 1 1C64H % 6"B@ 1C 2% (%6 46? G64 " !5 C"6% 1= G$4 B" !5 C"6% &64 2"5 1H%63$!5 C"6% C55% (?H463$!58.C"6% "6 1C62="%6K E64@ "6 @% E@B@4 "6 E" "47 'G1?1 >=" "6 %3%6 9" ":6%F "6 E" "47 16"31 '"6 "?6%E ?""" : "6 1= 4">34CH@ "6 1= 1%5F163= 461 %33$ "6 E" "47 455%3 "6 %B G64 B" (9 ":=3$ "6 %3%6(> 31 "6 %3%6 6"?%4CI "6 &64 2"5 64<% 461 %33$ "6 E4 3%6 1@% "6 15%>= 6%?% =47 "6 1= 133F" "6 1= 6%74" % 9 ":=3$ =46 %5 6%B4 "1 1$ 46=4@%5 =46 %5 Q6% 4F %@ 47C%# 1 1= >%22133 1= 6%?% =47 '4.""% ! "133 1 43=4 45=%":= 1= C" %6 1= ;&4 %6 E4"3%6 9% ?4 .2=4%" " 1= C %6 .C="H6 1 >= F4 % =1745 '466% "2=145 G @ !?F46?(%6 % =46 %5 G6> $ 47C%" 64B%6 5 C7>=6%@ "2=1 C7>=6%@ 1C63 4@ 63=C6 &163%52""% "? %@ G1?1 >=" % 6@ 6% 4F %@ C:= 163%52 % !?F46?! "133(E" "47 1=C 1= 9% ?4 1= G6%:16 47%5 9% ?4 %@71C6 6%?% =47 C:= @>%6 1= 6%$6%@ &64 2"5 4 74?@ 7H615% 4 431 15%>= 1@% 47%5 64?% "2=46? 1H @ 1$ 361 G%16:% 1H" 51 E" "47 1 ? 1= .1FH%6@ 1= 1 %F=4 % "2=145 166"2% !74 C% ">%6 %I4 ?%6 % ?46B%5 1= E4??1 1= ! "5 E" "47 652133 "2=46? !6"5%@ E" "47 466"5 =1745 2="7 47C% ! "5 1= &1F% 43=4 "% 1@% %I4 ?%6 46%F 15%>= % =4 1 ="">> 4@1F(1= 466%33 =1745 % =4 1 1= C63= 47%5; 1 ? &64 2"5 E" $ 1 43=4 6% 4F %@ G%16:%(>6@ % 6@ 1 %5 % 6@ " 2% 3 C:= 1 <" % 6@ 46"431= &64 2"5 4 431 =4?642 3 " 1% 3 =1745 9" %@ 1= 1C67;%@ 1= "2<$ E" "47 @71 ?$ E" "47 ":= 4" "%5 9%53% 462"55C5 C33%6%$$!?7C ? =" ">>5 1= 1=@ 1= .2=1 %3%6 6%B"54 =1745 4F<%@ !5 C"6 5 % 6@(KG6%:16 =46 %5 # "3=1 %".%4 3 433 4F% =6"531>=%6 \ 4631 47>51 " E" "47 E" "475 1$ $1H 5 1 43=4 6"?%4CI 1= E" "475 1$ 6%3=4 1= E" "475 1$ 46B%44 E" "47 11>%6 =1>" '1?51 1=" 46<% !?71 ? >116% "2=46? 1@% =46 %5 9% ?4 :" 4? 4F?% 421H 1H" 5 3%>=% 1H" 5 Q=174 E4??1 E" "47 463% E" "47 64??1 %:" 4? 4F<%@ 1= (9%53 % "2=145 9%7> E" "47 4 212< "2=145 62=%6 =1745 %6"% =1745 E163= E" "47 9%<36"2= 1= " %2< =174 1= 51 1= 9%:F" 15%>= 46<% =1745 G . E" "47 6%:%4 =46 %5 6%B4 "1 (1$ 6%:463=% "2=46? 466"5 1$ 11<% E" "47 %1 1= 8&113% 1$ 6C61 "2=46? !6"5%@ 1$ 4" 3 @133 1H%63 1C5% "2=46? 21H% &64 2"5 21H% &64 2"5 2="7 =6"531>=%6 C2<%6 1= C6 42% 1$ % ?% % = 745 "6"4 =1745 1H @ "2=46? 7"3= 1$ 16%F" 531F% !?F46? % 615% 1$ % 615 E" "47 24F% "2=46? %7$6@ % 6@ %7$6@ =" ">> 4F<" '% "5 G @ 1= %674 "2=46? %4? 1= 4 %@ 4C 62=46? 47C% G" H%63 1= 6% 4F %@ E" "47 % 615 =46 %5 (62=46?(!?F46? 9%%=1 % 47C% C @ =1745 1H @ 1$ 6 452C5 8 6" H> 1$ 466"5 1$ 9%6"%:"% 1= 4 2% 1= "B%6 1$ "3= %@ 1= 4 5%33 1= 46@ !?F46? '% "5 &646$2"5 4" 3%6 E" "47 %4 % 1= % 615 1$ % 42<4 3=1 @(4 %6 "2=46?(E" "475 1= C53"5 "2=145 151 1= 466"5 E" "47 & 47 74 < 1$ 15246 (% E" "47 12< 1$ 1 m31 = 745 %E%5 E" "47 64 ?1 "2=46? 6% 433"1 1$ %6@4= !5 C"6% 1== 1H" 5 1$ @U@4 G% 3%74 "7 13=@ GC @ 1= 4F 1$ % 4 3 G% 3%7% 1= &113 1= 1 % G%=3 4 %"" 1= H% 1$ GC5= 4 ?G% 3%74 %6 46?9% ?4 1 43=4 " 217H% =46 %5 6C%H1?@ G% 3%7%) ;

D &>6' 3" %(' 1C."3@ 1_' C7H%6 4 ?

=%' ":=3' 1 1C64H% "6' 1= ' 1F %6' 4" 1 %33' 1 % 1$' =%"6%' 4.%53"%5' 7153' 1 1C64H% 6"@@' 134"2% ' "6' =6"531>=%6' C5:64B%' "6' 1= ' '4531 ' "6 'G%16:%' & %32=%6' "6' 1= ' 1F3=%6' 1$' E="3%="" ' "6' E" "47' % " :31 ' "6' E""$6"?' 4F51 ' "6' "2=46?' C5:64 $' 461 %33$ "6' 1= ' 4 313" %;' "6' '4 "% ' & %7" :' = $' % 6@' K' ' E" $6"?' 4F 1 ' 15%>=' C?? %531 % 1H%63' 46 %31 ' E" "47'& %7" :' =1745' 47>1:=' "2=46? 47>C:=' 3=1 @' C331 ' "2=46?' 435"2<51 ' (1= ' :"1>H@' =6"531>=%6' ("2=71 ?' 1:%6(' 9"6H@' !?F46?' 45% ' " %5' % " :31 ' !?F46?(34= %@' E" "47' =6"53"4 ' E" "47 (G" >" ' !F% ' =6"53"4 ' '462@' C6F% ' %1 46?' '@<%5' =46 %5' 6>=%C6' 1= ' % =1C5% ?6%F' C?? %531 ' % 6@' 61F=47' =6"531>=%6' C5:64B%' % 6@' & %32=%6' ?$' 4 % 3"6%' 1= ' E" ?%6' .C "16' 1= ' C 51 H@' ?6%F' E=% >?4" %' "2=46?' 47>C:=' .C "16' !5 C"6%5' "6' 64 ?1' G%%' 9 ":=3' 1= '&1653%6' 1= ' 46<%' .C "16' "2=46?' % =1C5% =1745' ??"51 ' 47%5' 4IF% ' =46 %5' F4 F11?' =1745' E%H53%6' E" "47' G64=47' 1 =C4=' 43=%5' 1= 'G4 %' "713=@' &%3=%6531 % >= ' % $%' G% 3%7% ' 3=%' 4@16 ' 1$' 46 "5 % $16' 3=%' 3" 7% %" :'

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3=1>3@ 16?' 5= %@' 1 % 4 ?' %"6% >>46% 3 3I' 3=% i46 % 1$ =4$35HC6@ "6 1= ' 1631 ' "6 43=4 "% ' 4>>"%@ "6 1H%63 4>>"%@ 461 %33$ "6(1= ' "2=1 45 9 ":=3 1$ 3=% 43=' "6 G%16:% 3617?' "6 % 6@ 3 %6' K "6 433=%F% ?6%F%5 9 ":=3$ =17 45 &6%<% =17 45 364 :F4@%5 i?F46?' " %6 47C%' 1 ' "2=46?' &1F"'"% ' % 6@' 163 74 ' 1H%63 &6%<% 5% "16 E=' "47' <%?% ' .C "16' =1" 45' i6"% 1H%63 1<%6' 5% "16 1H%63 1<%6' .C "16 i?F46?R "2=1 45 E=' "47' E="3%426% 1= ' 3" ' 1H%63 %@ 7%6 E=' "47 (&6%<% =17 45' G6%% % 1= ' 11 % %H453"4 ' 5442<% 1H%63 C "$16? 1H%63 &6%<% .C "16 G%16:% 4@ 46?' =" ">' 4 ?"?233 =17 45 " % 1= ' 4 <$ 1$ E=' "47' B%?24 % =17 45 +F%5 i?F46?' %@ 71C6% E=' "47' 361?' 1H%63 E=' "47 5 =17 45 46?@' 1= ' E=' "47 5 =17 45 &6%<% .C "16' "2=4% ' 46B%@' &64 2"5 1=C ' % 6@ %@ 7%6 =17 45 =45% C:=' 12:%5 %.%4 3 433 4F% 6%:1 F% ' &647>3> ' 1= ' i453 71 3 1=' &"5=%6 i?F46?' ' 1% 1H%63 61F %' 1$ 647>31 ' % 6@' '%B% "5=' G%16:% 466@' 4 66@' 1 534 3" % 3=1 @ i 36"2< =17 45 6% 2=46 ' G%16:% 364 :F4@%5 "2=46?' 6426%>>' 43=4 "%' 1 ?' "5 4.%53"%5' %.%4 3 433 4F% C:=' =C? %":=' 1= ' K0 ?%5 =17 45 %4 46?K' .C "16 % 6@' % " :' % 6@ 6% 2=46?' 1= ' G1 ?' 1= ' 16?" :' E=" "47' i336"2< E=" "47' &,1@%6' E=" "47' % %33 3=%' .1C :%6 1$ 463:61B% 1= ' 4F6% 2% 1$ G64 :% E=" "47' 1F %5 5% "16 "71 "7H=%321 1= ' 6H 5?%(3 1=' 1F %5 1=='' 46?@' =17 45 " H%6B" % ' C % ' %@7%5' 1H%63 1% H6"?:% ' 1H%63' 61F %(43=4 "% # 4>>"%@ E=" "47' =C62=' "2=46?' F4@ % 1H%63 i6"% G%16:% '4FH% @' 1= ' "32=% ' =17 45 <" %6 =46 %5 6C" % E=" "47' "?% =47' "2=46?' " :=47' E=" "47' E%531 'K 47%5 C55%@' 1$ 31F%6>4@ % E=" "47' &" "1 ' E=" "47' E=~"3% 47%5 G1 ?' 1= ' C66"?:% 3=1 @ &1@%6 "2=1 45 46?@' E=" "47' % %33 "2=46? 15% "2=46?' C6:% 1H%63 1>% ?6%F' C2<%6' E=" "47' E4<%(1H%63 3%>=% 5 E=" "47' 174" % "2=1 45 61F % 1H%63 61F % G%16:% ?6%F' 13"%6 .C "16 G%16:% %53%6' E=" "47';ß C ' G%16:% 4':3%6 =17 45 1F%6 63=C6 @ % 1H%63 C66"?:% 1= ' i?F4$?$ K 1=' 361?% 47%5 46'4%5 1C :% G% 3 %74 ' "2=46?' ,1"?:% 1$ 166K G% 33%74 ' E=" "4" ' 1331 ' %62=4 3 (%62=4 3% 46"4%5 1C :% G% 3 %74 ' "2=46?' ,1"?:% 1$ 166K G% 33%74 ' E=" "4" ' 1331 ' %62=4 3 (

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/E" "47’ 6@%’ !?F46?’ 1b.<,’ 1=4’ 1%<%5’ G%16:%’ ! 1@?’ =1. 45’ 1F% ’ !5 C"6%5’ ’1 .46 ’ "2=46?’ E" 3 %’ 1= ’ GC"5%’ E" "47’ GC$%%’ 1= ’ @ %@’ =1745’ % ’ !5 C"6%5’ G4> %’ 4@6"%’ E" "47’ "221 5’ .C "16’ =%6""&%5’ 6’ =1745’ GH5 " %’ % 6@’ C33%6’ 6’ "1745’ E %H’ /

!16’ 3=%’ 1C 3@’ 1$’ 3"%6%$ 6?/ ’ ’ (

=%’ $ ":=3’ 1 1C64H %’ 1= ’ 16?’ "521C 3’ 2C?47 16%’ 1$’ 3=%’ 9" :?H7%’ 1$’ 6% 4 ?’ =%’ ":=3’ 1 1C64H %’ =1745’ 16?’ 1 " :%5H@’ 1$’ 3=%’ 9" :?17%’ 1$’ 6% 4 ?’ =%’ 1 1C64H %’ =47H%65’ 64H4`1 ’ !5 C"6%’ "6’ E" "47’ ’ G6%:16@’ ! ":=3’ 1 %’ 1$’ 3=%’ C53"2%5’ (1$’ =%"6%’ 4.%53"%5’ 1C63%’ 1$’ 9" :$’ % %=’ "6’ 1= ’ E" "475’ " ’ 1= ’ 16:4 ’ "6; %6H%63’ 61$3’ "6’ 1= ’ 15<" 5’ 461 %33$’ "6’ !?F46?’ 46 %@’ 9 ":=3’ 1$’ 3=%’ 43=’ "6’ &64 2"5’ E" " :31 ’ "6 ’ =1745’ ’C>>4’ ’ "6’ 1= ’ E" "475’ 9 ":=3$’ E" "47’ % %5’ 4C ’ &1 %@’ 1H%63’ 46 %@’ =1745’ 6"2%’ 1= ’ ’C 31 ’ 13’ >H%63’ 6"2%’ 47%5’ 16:4 ’ 1= ’ 6 1?’ 1= ’ 2C?47 16%’ 1$’ 9% 2=C62=’ =1745’ 16 F4 ’ 1$’ 34> %31"" 5 C"6%5’ =1745’ G%%6%5’ ".%4 3’ 433’ 4F% ’ "2=46?’ %4?’ 5% "16’ "2=46?’ %4?’ .C "16’ 1H%63’ E%53$4 " :’ =1745’ 1I(’ !?F46b ’ 16 F4 ’ % 6@’ 16 F4 ’ =1745’ &1 %@’ 5% "16’ =1745’ &1 %@’ .C "16’ 1= ’ 1F’ 47 % ’ "33’ 1= (’ 113=’ 1 ’ %331 ’ %6?" 4 "?1’ G16:%5’ !?F43?’ "33 %31 ’ =46 %5’ 4 ?F@ ’ 1H%63’ ’1HH" 5’ E" "47’ 47H’ 465=4 ’ 6"?:%5’ E" "47’ ’4 35%@’ 5% ’ E" "57’ ’4 35%@’ .C ’ =1745’ 16 %F4 "5’ 1H%63’ =4> " ’ %6H%63’ CH6%@’ ’ !?F46?’ 42<51 ’ 7H615%’ 2C?47 16%’ 1C :%6’ 11<%’ 47%5’ % 1@6’ 1$’ 3=%’ 116%’ 1H%63’ " 165’ E" "47’ E" 3%6’ 1H%63’ "3%’ 1= ’ C7%’ "2=46?’ 46 4H@’ =1745’ 1F463=’ 1H%63’ 4@ %’ 4 ?@5’ %2=71$%’ =1745 ’ ’% 4=4@’ "2=46? ’ 9"?%.6’ E" "47’ GH" "7’ 1$’ 4 :531 ’ 5% "16’ E" "47’ G4" "7’ 1$’ 4 :531 ’ .C "16’ &64 2"5’ 45<%6B" %’ 1$’ !7?%5 %@’ =1745’ E":716%’ 1= ’ 9"6 %’ 47C% ’ "62=’ 1= ’ G11?@%6’ 1= ’ 4 F%@’ =1745’ 46 %.6’ % 6@’ G16:%5’ 1= ’ 1F% ’ 1$’ 3=%’ E=" %’ 47%5’ E11?=1C5%’ 1$’ E11?=1C5%’ 47%5’ E% " :31 ’ 1= ’ 6"2%’ "2=46?’ <">>%’ 1= ’ E4 5=47’ !5 C"6%5’ "45’ 4C:=4 (’ % 6@’ E": "16%’ 1= ’ H64=4 ’ 1$’ :%531 ’ 1= ’ 2C?47 16%’ 1$’ 4 :4664 ’ 1:%6’ 2C?47 16%’ 1$’ 6%2% 4’ 1= ’ 46B%6’ 1$’ >31 ’ 1F4 ?’ 4C:=’ 47%5’ 1@?’ 1$’ 3=%’ 116%’ 15=C4’ 6155%’ =1745’ 1 :’ E" "47’ E4 ’ =1745’ %66" :31 ’ 1$’ 6"2<=1C5%’ 1H%63’ C3 %6’ 3=1 @’ "??1 >=’ 1$’ %?HC6@’ =1745’ 4F" 5’ =1745’ ’ GC" "7’ 1$’ E="32=C62=’ 1= (’ "62=’ E" "47’ %@?4 ’ 1= ’ 6"53’ &64 2"5(G%%6%5’ =1745’ ?%6 %’ 1$’ 1 " :3> ’ 1= ’ 15<" 5’ 1$’ 1 @3=1 ’ E" "47’ 6"?:%5’ 1$’ 1F4 ’ 47%5’ E%53$4 " :’ 1= ’ E% " :31 ’ =1745’ 466%33’ 1= ’ =17><" 5’ 1= ’ EH"33. :31 ’ % 6@’ 1 %5’ =174 ’ F% ’ 1$’ "33 %’ 647>31 ’ =1745’ 46>% 3%6’ 1$’ " " :31 ’ !55%I’ =%6HC6 % &64 2"5’ E11?=1C5%’ C7>=6%@’ 4@1’ 1= ’ E11 6"2=’ !?F46?’ 1??’ (1= ’ & %32=%6’ 1= ’ 9"? %@’ .C "16’ ’ 1$’ &1F %=1>%’ 1= ’ %6%$16?’ 1$’ 17 42@’ 47%5’ 46<%’ 1= ’ %6%$16?’ 1$’ C"$1 ’ 47%5’ E4 F" ’ ’4 "% ’ 9%66@’ %3%6’ 7"3=’ =1745’ %":=’ 1$’ " ’ 1= ’ 7"3=’ 1$’ 1 7%$’ H4 ’ =1745’ \ =1745’]’ &15H611<%’ C7>=6%@’ =1745’ G% 3%7% ’ 1= ’ 1 7%5’ !5 C"6% G" %5’ 6"?:%5’ ":?% ’ 47%5’ !5 C"6%5/ ’ (’

’ (&16’ 3=%’ "3@’ 1$’ %6%$16?/

’ =%’ 4@16’ $16’ 3=%’ 3"7%’ H%" :’ =%’ ":=3’ 1 1C64H %’ 1= ’ 16?’ "521C 3’ 2C?47 16%’ 1$’ 3=%’ 9" :?17%R1$’ 6%4 ?’ 6’ E" "47’ G6%:16@’ 1 %’ 1$’ 3=%’ C53"2%5’ 1$’ 3=%’ 9" :5’ % 2= 4C ’ &1 %@’ % 6@’ 16 F4 ’ %6H%63’ E%53$4 " :’ ’ 47%5’ (E% " :31 ’ !5 C"6%5’ 1H%63’ @71 ?$’ =1745’ 4@ 46?’ H64=47’ %F46?’ =1745’ 433=%F%5’ "2=46?’ E4?%@’ ?%67%’ =1745’ =C62=’ "2=46?’ 11%’ =1745’ 46<%’ 5% "16’ =1745’ 46<%’ .C "H6’ % 6@’ 7"3=’ !?F46?’ 1??’ 1= ’ E" "475’ 5% "16’ ?= ’ E" "475’ .C "16’ 47%5’ 6"2%’ 1= ’ H64=4 ’ "2=46?’ G1F%6’ !?7C ?’ (E%4B%6’ =%1>=" 5’ " %’ 1= ’ 7"3=’ =1745’ ?%6 ’ =1745’ 1??’ 47%5’ E%53$4 " :’ "2=46?’ =" >133$’ H% ’ 5=47’ G% 3%7% /

&16’ 3=%’ 161C:=’ 1$’ %753%6(

=%’ 4@ "$$%5’ 46"?’ C53"2%5’ $16’ 3=%’ 3"7%(H%" :’ =1745’ 16?’ 1 " :%5H@’ 1$’ 3=%’ 9" :?17%’ 1$’ 6% 4 ?’ 1= ’ ’C(331 ’ 13’ !?F46?’ 46 %@’ !5 C"6%5’ 1= ’ 17><" 5’ =1745’ 466"5’ = ’ E" "475’ 1= ’ E431 ’ 47%5’ 1;F% ’ 1= ’ 4@’ 4 "H’ 1F% (’ 47%5’ E" 31 =1745’ 4 " :$’ 1= ’ 18.% ’ "2=46?’ 1F% ’ " "47’ =" ">5’ "2=46?’ 1 %5’ "2=46?(’ 1?:%5’ 1= ’ % " :$’ G% 3%7% ’ =1745’ 6"2%’ " 2% 3’ !?F46?$ /

&16’ 3=%’ 1C 3@’ 1$’ %63$16?

=%’ 1 1C64H %’ 1H%63’ %2" ’ !5 C"6%’ "6’ 47C% ’ G6"7531 ’ "6’ 1= ’ G46646?’ "6’ "2=46?’ &64 <" ’ ’ "6’ 1= ’ ’ C53" ’ "6’ E" "47’ 1F>%6’ "6’ 1H%63’ 12%" ’ "6’ E" "47’ %74 ’ "6’ =1745’ 1>%’ C 3’ "6’ =1745’ 61:64B%’ "6’ 1 43=4 ’ 9%43%’ "6’ 1= ’ E"33%61 :%’ "6’ "2=46?’ ?%651 ’ "6’ !?7C ?’ ?%651 ’ "6’ 1= ’ %4?’ "6’ % .47" ’ 4331(I’ "6’ !?F" ’ 4? "%6’ "6’ !?F ?’ C6 %6’ "6’ %3%6’ 147%’ 461 %33$’ "6’ C7>=6%@’ G16%’ "6’ =46 %5’ 45646’ "6’ 4 >=’ 432 "$$%’ "6’ =1745(’ "?%’ "6’ E" "47’ "331 ’ "6’ 1= ’ C2< 4 ’ ("6’ &64 2"5’ %":=’ "6’ E" "4. ’ %6<" 5’ "6’ 1H%63’ 45=47’ "6’ ?47’ 3%@’ "6’ % .47" ’ "2=$ C6 %’ "6’ =1745’ 13’ "6’ % 6@’ =4C 2@’ "6’ !?F46?’ ’ %5H1C6@’ 9 ":=3$’ G%16:%’ =C62=" ’ "45’ "3C5’ % 6@’ GC@’ 1H%63’ C53% ’ (=1745’ C53% ’ E" "47’ G16%’ % 6@’ G16%’ 4 >=’ &6%%74 ’ 5% ">6 4 >=’ ’ &6%%74 ’ .C "16’ 1H%63’ ! F%5’ =1745’ 45%@’ !?F46?’ =%53%6’ 1= ’ C3 7%5’ E" "47’ 1F>%6’ =1745’ 1>%’ C""3’ E" "47’ 46B%@’ G%16:%’ C 51 ’ &64 2"5’ & @%6’ %6%7"4=’ 4%5’ =1745’ 6"%53%@’ !5 C"6%5’ =1745’ ; 3<" 5’ =1745’ ’ 64I’ 564%" 4@>’ \!?F46?’ 6"521’ 5% ’ !?F46?’ 6"521’ .C=’]’ E" "47’ 6"521’ ; =1745’ 647’ G" H%63’ 123’ 9%43%’ G%16:%’ 4? %@’ 47%5’ E"33%61 :’ 47%5’ 3%?74 ’ 1= ’ =46 31 ’ E" "4 ’ !7%631 ’ =1745’ !7%631 ’ 47%5’ &16%53%6’ 47%5’ G1C 531 ’ 433=%F ’ C2<’ E" "47’ % ’ =1745’ 45<%’ E" "4"." % F2%’ 1= ’ E%3=%6=%4?’ 47C% ’ 1H" 51 ’ 47%5’ E" @7133’ =1745’ 31 %’ 1= ’ G46?" %3’ 1:%6G1 %%H@’ 4674?C<%(4F?% ’ =1745’ 66"5’ 1H%63’ 1H13=47’ 1= ’ G %’ 5% "16’ % 6@’ =" ?’ "2=46?’ % ?%6 ’ 1= ’ >% 2%6’ !5 C"6%5’ G11?F" ’ 4667:31"" 1= ’ %3=F ’ 15%>=’ 465=’ G%16:%’ 1?%5’ 4 >=’ E" :43%’ =1745’ "6?’ 1$’ 43 12<%5’ %6 46?’ C6 %6(46"5’ 4C:=3%6’ 1= ’ ’C 217H’ ’4 "% ’ %"?% ’ !?F46?’ 4"6%5’ 364 :%’ 12% " (

’ &64 2"5’ ("C3%6 " %?1 ’ 3=%’ 1 (

i?F46? %@71C6 =174S 1F %53 =174S %F 4 ? %14 ?%6 E % ?' =174S E" $16? 3=1 @ &466" :31 ' %.%4 3 433 4F% 1= ' &466" :3> ' (421 E" "47' 6"531F =" ">;' 2=% ' !5 C"6%W' ,4 "% ' "2=% ' G% 3 E" "47' 4 B%63 &% "! 4 B%63 .C "16 !5 C"6%5 C7>=6%@ 4 G% 3 %74 ' 1= ' 46? @' 1U16' " ' =@52 Y% i?F46? 43?"$$% !5 C"6% =46 %5 &%66465 %"6% E" "47'5 !5 C"6% 1= ' 1H%63$ 4674?C<% " :31 ' E" =47' 463" '(1$ E43$16? G% 3 %74 ' 47%5 % %33 E" "47' 4<% 1$ ' 3 %46% "6 % 6@ 4 7%@ "6 G%16: "B%65 "6 =174S 1C3=$ %%3% "6 =1745 1H%63$ "6 =46 %5 "?%@ 1$ ' 3 %46% "6 % 6@ 4 7%@ "6 G%16: "B%65 "6 =174S ' C >%>%@ "6 1= ' 9 432=HC ' "6 =" ">;' 13% %@ "6 =1745 3" %5 "6 4 '" ,"I F% ' "6 3%>=%' %1 46? "6 1= ' ' 4" @ "6 1H%63 4 %5 "6 C7>=6%@ " %@ "6 E" "47' 1 @F11? "6(=1745 %"62% "6 1= ' 4 <$ "6 43=4 "% ' 1E% "6 1= ' C53% ' "6 =1745 % @46? "6 1= ' C3 %@ "6 1:%@ "6 F"5?%' "6 && 72"5 %4?' "6 E" "47' &64 2"5 9" :' 15=C4=' 1741' =1745 1741' "2=46? E1H %531 (=1745 "2=1 5 1$ C5=%@ i"=: 1 ' @ 1 ' =1745 1F' 1= ' 1@ %F?=:43% 1@ %@ 1= ' 1>>" ' E" "47' 1331 ' 3=1 @ "?C >=' !5 ' "2=1 45 C6 %@ !5 C"6% 1= ' "2=4673!51 ' !5 C"6% 1= ' E11?=1C5% (432=% 16 " ' =@5"2<% i?7C ? 7"3=' E" "47' G6%% =" ' G1?74 ' % <"6" ' 45%=@ =1745 4 $>% @ 1= ' "2=1 5 1$ 6"2< %65 " ' 1" ' "2=1 5 1$?% =47' % 6@ 9" :5 %@ "2=467' 45% 'G% 3 %7 %' ' 4 "%# "2=1 (G% 3 %74 ' 4 >=' 4 ?F@ ' % 3 %74 ' 1= ' 5?% ' i?F46? %@ %5 >=' <" %6 G%16:' %64>%6' =46 %5 4@ %6 ("2=467 4@ %6 G% 3 %7 %' =% 4@16 1$ ' H4 5 (4 ? %63$16? $16%B=% 3"7% H%" :/

&16 3=% 161C:=' 1$ 3(H4 5/

=%' 4@16 %2167?%@ 4 ? ?%67 % '$1@ 3=% 3"7% H%" :' "6 47C% ' G6"7531 ' 461 %33 G%16:% =C62=" ' $"% 6@ 9" %:6%F% =1745 66"5 1= 'G4>% .C "16 1H%63 1H13=47' !5 C"6%5/

(! &16 3=% 1C 3@ 1$ C 3" :?1 /

=%' 1 1C64H % 1H%63 1C 34:C% !5 C"6% =%' 1 1C64H % "? %@ E163 %@' 1C 34:C% !5 C"6% =%' 1 1C64H % "2=46? 1C 34:C% !5 C"6% "6 1= ' 1331 ' "6 1H%63 %6 467 461 %33$ "6 "1'"% 'E4 ?% ' "6 i?71 ? G46?" %6 i1'"':=3$ =46 %5 1C 34:C% E" "47' "% >1" 3 1= ' 61H@ 1= ' '6@?% ' 1= ' 1 @%65 "45 "3C5 1H%63 >>6%%2% ((63=C6 C 71C6 =46 %5 %546 5% "16 1= ' 3=1 @ 4771 ? E" "47' 4@ 1C6 47%5 16<" :31 ' 1= ' &%664 6 12<" ' :3> ' 1H%63 C %@ ' =" ">;' 316%@ =46 %5 %546 .C "16 1H%63 =612<7 1631 ' =46 %5 6@2%' "2=46? ' 6C6@ i?F46? "2<%" :' % 6@ 5= %@ 1H%63 E" "47 5 16 F4 "5 &64 2"5 46H@ "2=46? ' "%6 =46 %5 .>=%6 ? i5 C"6%5 1= (&%664 6 E" "47' ' 6C6@ 1= ' 4 :%' "2=46? E@ ?%' 1H%63 46<% 1= ' 5=2613$%' "2=46? 433 %@; E" "47' &C % 47%5 4 %@ G%16:% 11<% 1= ' ?@' E" "47' @7 71 ?$ E" "47' G" H%63 1= ' % 47@ i?F46? =%2< %@ E" "47' 1B% 4F6% 2% 433 1= ' C 3%6 E" "47' >4661F% 1:%6 %2< K =1745 60@2%'(1 43=4 ' %47 G" H%63 &4C % E" "47' E @% 1H%63 %F53%6 1= ' 451 "71 ' 451 ' =1745 4@ % 1H%63 @" 3%6 4F6% 2% 1751 1H%63 1751 ' "2=46? 463%6' i?F46? 4 :%6 =1745 46:% %3% 4F6% 2% =17>51 '(47C% ' i "133 1= ' 1= ' 51 ' i?F46? 451 ' G% 3 %7 % / (

G16%' "2=1 45' 11<% G%16:% ! 22.2<' % 6@' I% ?% ' 15%5' 4> %31 'B % 6@' 4F %@' "2=46?' I% ?% ' %6H%63' 4 7%6' E163 %@' E=1" 11?(% 6@' %%' 47%5' 1?' 1H%63' %43=%' 1= ' !B% "6" ! ?F46?' C53" ' E" "47' 47H%63' (E" "47' E" <" 51:' =" ">>' 463=1 17%F' G%16:%' G"$$16?' &64 2"5' &46 4H@' (4 >=' %3 %@' E" "47' F4 ' 1= ' C::% 5' 1H%63' C53% ' .C "16' %I4 ?%6' C >%>%6' !5 C"6%5' 1= ' =C6H46 %' %6.%4 3' 433' 4F%' " 2% 3' ' % ' %6.%4 3' 433' 4F%' ' =1745' 4@ 16' 4>34" %' %3?3' ?$' =4 %33' =1745' "55%' 16?"5=(4 ' =6"531>=%6' =%6 74 ' H64=47'(466"51 ' 6 1 ? 9" :' ! "5' C "$$%' 1H%63' 133' =" ">>' 4>" 1 ' E" "47' % 74 &64 2"5' E43%6 74 ' 1 45' 2133' =46 %5' 46:64B%' E" "47' 1C63=1>%' 47C%# C7 7%6' 1$' 1 " :H17%' E" "47' E="3%' 1= ' 6"5>%' 1:%6' 4@ %' =13$"45' 4> %31 ' !?F46?' C33' % 6@' 465=' =1745' 6%F%6'(=1745' E45=%6' 1H%63' "2=% ' %$$%6@' (1@5' 47'"% ' =4F' 1= ' 451 ' 1H(%63' %4<%' =1745' 4 %5' G%16:%' C63%"5' =1745' ?6"4 ' 1= ' &13=%6 .@' &64 2"5'(456% ' =1="45' % @46?' =6"531>=%6' "51 ' % 6@' 4C ?@5' %62"B4 ' 463' !?F46?' 4 " :$' !?F46?' 6% 3' 47%5' &1636@' !?F46?' G642%' !?F46?' 9" :' =1745' G"$$16?' !?F46?' %33"51 ' !?F46?' ?1<%' E" "47' 4 ?1 >=' 1= ' C >%>%6' =46 %5' 9% 6"2<' 1= ' " 2=' 1H%63' 6"331 ' =1745' 465=' =1745' %6%?"3=' C7>=6%@' 3@ %5' "2=46?' C 5%' !?F46?' 4 %@ % .47" ' G1?$6%@' 1= ' 1" ' E" "47'(C6 %6' 47=47' 1F% ' E" "47' 47%5' 4>34" %' 17 " ' =6"531>=%6' 451 '!5 C"6%5' =?745' 1F%6' 1$' 5=$16?' E" "47' C::% ' =1745' 1@5' 1$' %65=47' =1745' G2"?$6 @' =1745' C6 %6' =%' 4@16' 1$' 12=%53%6' $16' 3=%' \.3" 7 %H%" :' =%K' 4@16' 1$' 4"?531 % $16' 3=%' 3" 7%' H%" :' ' 433 %@' % .47" ' 463 %@' 1= ' 117%' =46 %5' &4::' G%16:%' E "3=F"2<' =1745' 6%33' E" "47' 6%33' G% 3 %7% ' =%' C643%5' 1$' 4"?531 % H%" :' C53"2%5' 1$' 3=%' %42%' =1745' 166"5' 1= ' 1>>" ' 1$' '%4 %' E" "47'("I1 ' 1= ' 7"3=' 1= ' 461 ' E" "47' >% 2%6' 4>34" %' 1C63=1>%' G%16:%' !3<" 5' =1745' 11<%' 1$' 1HH" ' (E" "47' " ?4 ' "2=46?' @71 ?$' &64 2"5' E=%% %6' =46 %5' %546' % 6@' 42<%6' 1H%63' " 165' !5 C"6%5' =%' 4@16' 1$' G64B%5% ?' $16' 3=%' 3" 7%' H%" :' =6"531>=%6' E43%65' E" "47' 46? %@' E" "47' C >%>%6' 1= ' =6"537 45' =1745' ="$$" 2=' &64 2"5' 611<5' =1745' <%::' G%16:%' 463%6' 1= '(=4> .4 ' E" "47' E4351 ' 1= ' 4351 ' 1= ' 7"3=' 1$' %%' 3"= ' <" %6' G466%33% G4 4 3' "2=46?' ! 4@' E" '.47' E%4B%6' G%16:%' %"62%' 1H%63' 4 71 ?' 1H%63' 1?% ' 1$' 4F<6"?:% 473"% ' E11?' E" "47' %4?%6' 1= ' 6"4 ' C<%' >% 2%6' E" "47' E11?@>6' 1= ' =46 %31 ' =1745' C77%6' %3%6' =163' G% 3 %7% ' =%' G1B%6 1C6% 1$' > 146%' 453 %' =%' 4@16' 1$' 0C%% %H161C:=' 4 ? C53"2%5' 1$' 3=% %42% $16' 3=% 3" 7% H%" :' H64=47' >11 %6' G% 3 %74 (' 1$316' 1H%63' 1 @' %6 46?' ! "5' !5 C"6%5

&16' 3=%' "3@' 4 ?' 1C 3@' 1$' 3=%' "3@' 1$' 4 3%6HC6@/

433="45' G64@' !5 C"6%' 4@16'(" 2% 3' ' % ' !5 C"6%' %6.%4 3' 433' 4F%' %216?%6' "6' E" "47' 1 @F11?' 461 %33' % 6@' %%' 1= ' 451 ' !?F46?' C33' %6H%63' 4 ?1 >=' %$$%6@' 1@5' E" "47' C6 %6' E" "47' 1C63=1>%' !5 C"6%5' =1745' 4@ 16' '1U16' 1$' 4F%' 1= ' 46<%' 1H%63' 1 %@' '1? 165' 1$' =@5"2<' E" "47' E4351 ' G% 3 %74 ' =1745' &"?:% =1745' 9 1F %6' "2=145' "2=151 ' =1745' 'C <" ' E" "47' G" H%63' 1= ' G 46 @ ' C"6%' %B%631 ' % 6@' G"HH5' &64 2"5' %$$%6@' % 6@' E4??% ' 1= ' %4 %' ?%67% /

&16' 3=%' 1F 4'4 ?' 163' 1$' %F' 17 %@f

=%' 4@16' $16' 3=%' "7% H%" :' "6' =46 %5' "? %@' 461 %33' 1= ' 6%F%6' !5 C"6%' 6' 1= ' C 3' 6' 1= ' 4524 ' 6' %3%6' 463% ' 6' "2=46?; 4<%6' 6' 1= ' =4 <%6' 6' E" =;47' &" 2=' 6' %3%6' !B4 5'/

' &16' 3=%' 1F % 4 ?' 163' 1$'(@3=%'/

' =%' 4@16' $16' 3= ' 3" 7% H%" :' "6' =" ">>' 13% %6' 461 %33' E" "47' 612<74 ' !5 C"6%' 4>34" %' 1H" 51 ' %4 ' 6' E" "47' 61F %' 6' % 6@' '%%?%5' 6' ! "45' 455%33' 6' =1745' HC6 4@/

(&16 3=%' 1F % 4 ?' 163' 1$' ' 1B%6/

=%' 4@16' 4 ?' C643%5' $16' 3=%' 3" 7% H%" :' = 745' 4>" 1 ' !5 C"6%' 47%5' =4?F"2<' !5 C"6%' "6' H64=47'(421H' &6%?%6"2<' ?%' " 2<%' 1= ' 43351 ' "2=145' C " ' =" ">>' 16<%' 1H%63' 421H' H64=47' 312<' 4F163= 1= ' &16?%' 43=7"% # ' % %F' G% 3 %7% ' =1745' %??" :$%" ?' 1F %' "%6<%((' (

&16' 3=%' 1F % 4 ?' 163' 1$' 4 ?F"2=/ ' (('

6' %6.%4 3' =C6H46 %' !?F46?' 6% 3' !5 C"6%5' =%' 4@16' 4 ?' C643%5' $16' 3=%' 3" 7% H%" :' "2=46?'(4F<%6' 1F %' %$<%/' ((' ' ' (' '

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; C32=% ,.C 71G 1= ' % %33' 47%5 4 54 ' "174$ 4@%5(=46 %5 % " :$ "2=46? "53%6 .C "1G % 6@ % " :=47' =1745 4631>>' &$LT ' 5=H@ =174$ <%$" :31 ' 617% 1= ' =>6 =4:=' =174$ 12 "2143% =174$ E"51 ' .C "1G 6391 @ 47%6 =6"531>=%6 4 5% !5 "6%5 "6 C6@ C5H' =% 4@1G ?%6 7 % ' %2167%6 4 ? =%6"$$%5 1$ G%16:% C32=% ' % 6@ 453" :5 =6"531>=%6 42<' E" "47' &4C 3 1= ' E"<" 5 % 6@ 9% ?4 ' E" "47' E11 4531 ' 3=% "3@ 1$ " 21 % &1G 3=% 16>16421 ' 1$ G6"75H@ =% 4@1G ?%6" % ' 4 ? %2167%6 &1G 3=% 16>16421 ' 1$ 1531 ' =% 4@1G ?%6 7 % ' 4 ? %2167%6 1$ 1531 ' &1G 3=% 16>16421 ' 1$ 347$16? =% 4@16 ?%6 7 % ' 4 ? %216?%6 1$ 347$16? 1G 8 16>164 2H ' 1$ G64 3=47' =%' ?%67 4 ' 1$ G64 3=47' "47' E" =1745 1 % 6%' 1H%63 1 % =1745 6%4 ? i?F46? E4351 ' =1745 1 % E" "47' 1H" 51 ' i?F46? 12" :31 ' "71 ' G64 3 1H%63 1 % =1745 6%4 ? i?F46? 61 F % 15%>=' &"?% ' 1H%63 46<% ' =1745 6"2= 1% 43=4 "% ' G463=F4"3% 1$316' %% ' G% 3 %7 ' i?F46? 61 F % 15%>=' &"?% ' 1H%63 466"5 1$ 9"63? (i?F46? 4F >? 1$ G15H"631 ' 1= ' =16 %@' =46 %5 "F217 %' "2=1 45 =1745 E"51 ' =1(1= 51 ' "2=46? E=3% % 6@ 1C364@' 4 >=' C:% %@ G% $ 3=1"'@ E" :$%" ?' =46 %5 4 $16?' %6%:6" % %63"% 1$ G%? %@ i ' =% E46?% ' 1$ 1F3=' 1= ' %F31 ' 1C 34:C%' =1 7 @ E" "47' 61F 1F' "2=46? E" 2=' 3%>=% ' 13=F=' E" "47' 61 1>>' %6%:6" % C2<' 1= ' "2< %3=F4"3% 1= ' G1127 6"2<% =7C% ' C?" :31 ' !5 C"6%5 1= ' 61F % E" "47' 1 34:C% 3%7% ' "6' i?F46? &467%@ "6' 1H%63 46<=47' 461 %33$ 1= ' E" "47' 3<"5(1= ' 1%5 1H%63 (&6%%74 ' =17 45 ?6%"F%5 E" "47' " %65 E" "47' 46<% 1$ 3%>= 5 E" "47' "2=4% ' E=4631 ' "6 1= ' =17>51 ' "6 =1745 64B% ' 9 ":=3$ =46 %5 ' ,"7 712<' =47>"1 ' %F"5 C6 %@ "6 "2=4% ' E=4633$ 1= ' 112? %$$6@ 4 7%@ "2=46?' E 433$ G% 3 %7 % ' "2=46?' =%5 " ' G% $/

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1= ' 4B%' =46 %5' %F217" ' G% ?%7% ' '1016' &C F117' 1$' 347$167' 1= ' !B4 5' E" H47' 1 :' 1$' 4631 ' G% 3%7% '&64 2"5' &4 % 4 >=' 4??" 51 ' !5 C"6%5' 436"2<% =16%' =1745' 11 %5' 1H%63' 466"5' !?F467' 61F % 1$' 0C4?6" :' 8 % 6@ ' 4@F117' 4C6"2% 1= 51 ' !?F46?(C53" ' !C5%H"C5' 1631 ' !?F467' & ' ' =6"531>=%6' >11 %6' 1= ' 6@4 ' =16@' 1??' "" "47' 'C 217H' 1 43=4 ' G4C %' 1= ' =16 %H@' !?F467' E" H@' G% 3%7% ' % 6@' % ' %4 % ' E"7H%6 @' !5 C"6%5' 4 ' 9 ">%' =6"531>=%6' " "467' !?F467' %6%5 %@' =1745' 14 %' 1H%63' "6<" ' '"$3"712<' 1$' 46<%33' 451 1= ' C65 %7' E" "47' 4@' E" "47' '" "7%46%' % 6@' ?6%F%5 1$' 5:%6H@' G%16:%' 1 4 ?$' E4 2133' 1$' E4 2133' G% ?%7% ' 1= ' 61F %' !5 C"6%/

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&16 3=%' H2"%3@ 1$ G6%@%5 ' 4=?3=% 5 1$ =4 2%6@ 3=%6%31' H% 1 :" :1/ (f @M $

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′ =46 %5 16? 46 C%5g% 1$ E162%53%6 m1 % 4 ?(%′6% >>46% 3 1$ =″5 G642% 3=% ′ C<% 1$ %4C1?′ "6 =46 %5′ i % 7 %@5 461 %33 "6 1= ′ E″ "47′ 11<% "6 i ?7C ? ′ 1@ %@ "6(%3%6 G %4 % "6 i ?7C ? 421 ′ 46? %33% "6 %B″ % "2=1 45 >4 6646? "6 E″ "47′ 11<% "6 i ?7C ? ′ 1@ %@ "6(%3%6 G %4 % "6 i ?7C ? 421 ′ 46? %33% "6 %B″ % 43 @ ′ "$%64 2″5 GC@H1 ′ "6 E″ "47′ 4 3 "6 1= ′ C6 %@ "6 "6 ′ E"2=′ "6 i ?F46? =″5% =4 ′ "6 1H%63 4@31 ′ "6 =17 45 4 " 51 ′ 9 ″:=3$′ =17 45 9 %B@33 1H%63 E4 >11 % "2=46? %6 %@ 1= ′ 46H146?′ i ?7C>? E1?%=1C5% 1= ′ E1?%=1C5%(5=′ E″ ?=47′ =″ ″>> 53 %@′ 47%5 153 1= ′ %6 % =4. %5 %′G61 5% 1= ′ 9 %B@33 ′% ¯″ ′ =5 1F% 1H%63 C2< ″ :′ =″ ″>>′ %?″ :$%″ ? i645 7C5 i46 % 1H%63 1 %@′ 1= ′ 166″5 $37 ‴% ′ %?″=:$%″ ? G%16:% i : 4 ? 5442′ 6%53Ł ′ 1H%63′ ,4B@′ 1= ′ ″ :4@′ 63=C6′ $4 3=F4″3% 142″7′ 433=%F%5 6″3′$$%′ i5 C″6%5 4 >″ 46% 1H%63′ G113=′ 4C6′2% 9% ?4 ′ %1 46? 4>% ′ ?= ′ %>>5 1= ′ 1C:=31 ′ 3=1 @ 6%531 ′ "B%6′ %B% =16 4:=′ C$?1 47C% # &C %6 $417Ł%′ >F$%″ ? C:′ 1<%==47′ % 6@ G(1 ?F% ′ 1= ′ =C6531$3 1:%6′ 453 % 1= ′ "6<% ′ C:C53″ % 6″:.$ G 1B%6′ ,% @ E″ "47′ 64=3=F4″3%′ ,12316′ %>>%6′ 47%5 153% G4H6% ″ 67″:%6′ =6″531>=%6′ 61F% ″2=%5 61F % 6@ %:C5′ 1= ′ E46=<1C5% 1H%63′ E″51 ′ i ?F?6?E″5 ′ i ?7C ?(6″3′$$% 4331 ′ % %5′ 1H%63′ ,4@′ 1=$″ @?% %7% 3 % %(E″ "47′ ?$%″ ?′ =17 45 1F 59% ? C ?%$16 ? H% 74 ′ =17 45 61F %(1= 4:%′ 4H″3%E 46? Ł64 2″5 i c :′ =17 45 "%51′ 43=4 "% @71 ?9′ i ?F46? 14 7% 1= ′ 4@% i ?7C ? 47H% =17 45 E6″:=3 =17 45 F%6 1= ′ 61> %@′ >= "2=7 1=? 47%5 1H463 1H%63 %5 24 7H %6(% 6@ <=C6:=′ E″ "43=′ 31 % %″62%@′ 6%4<% Ł64 2″5 G46?″ %6 6″:′ i1C=34″=%′ =%′ E46?2%′ 43 %5 24 7H %6(% 6@ <=C6:=′ E″ "43=′ 31 % %″62%@′ 6%4<% Ł64 2″5 G46?″ %6 6″:′ i1C=34″=%′ =%′ E46?2%′ 43 %5 24 7H %6(% 6@ <=C6:=′ E″ "43=′ 31 % %″62%@′ 6%4<% Ł64 2″5 G46?″ %6 6″:′ i1C=34″=%′ =%′ "1 7 45 i : 4 ?′ % .47.′ i : 4 ?′ &$4 2″5 =16″5H″% i ?F46? 5H16 % G46?″ %6 2 B″33 564%″ 1 :′ G%16:% %6 1 ′ =17 45(4 ?%5 =17 45 4 3 <=46? &%66″?6 E″ "47′ "? %@′ ″:″573 7? 64$$16? i5 C″6%5 1H%63 %7 @′ 1 43=4 ′ @71 ?$′ 1= i1E %5 =46 %5 C6 %6′ .C ″16 1H%63 %6 % i ?F46? ; 364 :% % ″% 3 G112=′ Ł64 2<′ %:C5 ″2$″46? 46$16′ 1= ′ $%F53Ł%′ 1H%63′ ,>C:=@′ 1H%63 1 ?1 (=17 45 4 H133 1H%63 ″$%74 ′ Ł64 2″5 ′C5:43Ł 1:%6′ ″ ″ :$ 1= ′ 453 % i ?F46? C F%6 =17(4″5 4@5%>1 %(=17 45 6″2<′ ″ 61:64B% % .47″ ′ ,%3=<<′ i ?F46?′ 46 %5 =″ ″>>′ ″ 2% 3 i ?7C ? :C<=(C7>=6%@′ 4 3 1= ′ % %=455%33 E4 %6′ 422 7′ ″2=1 45 1 ″5 47%5 % 4 3 =17 45 %F74 ′ i ?F46? i46 % =6″531>=%6 4@%6″ 1H%63 Ł<<%′ Ł64 2″5 %B%′ C =4 ′ Ł64 2″5 E″ "47 5 16:4 ′ =17 45 1= E43<″ 5 6%B16 % "2<%′ E″ "47′ iB4 5 5% "16 E″ "47′ 6″2% 1= ′ GF″ "47′ Ł64 2″5 6″2=46? =.″2=46% ′ 1=C % 1$$16′ 1= ′ 1 %5 H4 2% 16 1$ 4 ?4$$ 6″ ′ "53%6 .B7″16(6 3=″ ″>>′ 16:4 ′ 1= ′ 6″2=46? 1$ 47>51 ′ =% ?1 ′ 1F% ′ i ˉ64′ E43%65 C:=′ 466% ′ E″ "47′ 4@5% =46 %5 1 %5 1$ 4:46 % 6@ 221 ? 47%5 >6″ :%33 % 6@ %F″5 1$ $%3%42<′ =46 %5 ′G6″$$″3=′ =17 45 GF″ "7′ 1= ′ 2C?47 16% 1$(6%?4C:=4 ′ E4 3Ł6 Ł163C % 1$ 1 71C3=′ G%16:% 9%7%@5 1$ 4B% 74H%@′ 1= ′ E4 3%65 1$ 3 6″?%5 =46 %5 =H16″3% 1$ E″=″41′ ,C ″16′ ,4B″?′ =17 45 1$ H%6:4B% @ 1:%6 9%6 %@5 ′G%16:% 1 %33 1= # % F″5 1$′ 44?″ 1′ =17 45 E″ "4$3″5 1= ′ =″ >133 k % 6@ G4HF′ G% 3 ??%5 16:4 ′ 1$ H%:4 % @ =17 45 i ?F46?$ G%16:% 16:4 ′ %6%:6″% %3 5 =17 45 iB4 5 G% 3 % 6@ 61H%63 .C ″16 =46 %5 61H%63 4>34″ %k %=6@ C ″5%@ 1= ′ %″651 ′ =″ ″>>′ 16:4 1= ′ 7″3=′ 1$ 4 3=46 =47′ G% 3f′ (((

′ ′ &16′ $=% 1C 3@ 1$ 16$1 <f′ ′ (

=%′ ″:=3 1 1C64H % % 6@ 16? 1 64″ % 1$ 3=% 9″=:?17% 1$ 6% 4 ? ″6 1H%63′ 421 ′ ″6 % 6@ 1H463 ″6 1= ′ E1?%=1C5% ″6 1= ′ 16?4 3 1H%63 ′ 6C6@′ ″6′ 1= ′ 1 4 ? ″6 C:C53″ % 4 4B% ″6 1= ′ %33 5

&:6 3=% 161C:= 1$ G6%43%J 46 7 1C3= f

=% 4@ "$$$ $16 3=% 3"7% H%" :' G%16:% ! :4 ? !5 C"6% %216?%6 47C1 &C %6 !5 C"6% %3%6 4C "%6 =1745 ! :4 ?' $% .47" % ! :4 ?' 1= 1H" 5 =1745 64?$16?(1= ;%66"%6 43=4 "% @71 ?$ =1745 G1?$6%@ (1= G4@V16?' G4H6"% " E46?' 1= ?6%F%5 3=1 @ ! "5 5% "16 "2=46?' &%66"%6 1H%63 %6 46?' =1745 1B% % 6@ =17>51 3=1 @ ! "5 .C "16 1= GC % 15%>= 13374 % .4>"" % ! :% 1H%63 4<%6(1= 46 1F ?%67% 1= C631 5% "16 =1745 ! "5 (

&16 3=% 161C:= 1$ 9" :$ @ ;

=% 4@16 ($16 3=% 3"7% H%" :' "6 1= C6 %6 >4 "%$ %?" :$%" ?' %216?%6 % .47" % 1 @ G" %5 6"?:%74 1= 9"??' !?7C ?' 11<% % .4 ."= 9%% 1H%63 >4661F @>6"4 ?%651 % 6@ &6477" :=47 % 6@ % =46 %5 C6 %6 5% "16 E" "47 > @ (((

&16 3=% 161C:= 1$ =%3$16?

"6 (1= 1 4 ? 461 %33;' "6 15%>= E" "4751 "6 &64 2"5 GC@H1 4>3"53 4@ 1= =6C531 E" "47 61> %@ E167% %@ %$=%62%33 =46 %5 E6":=3 =1745 E6":=3 (4C6"2% 9% ?4 1= '64>%6 1H%63 4C?% !?7C ?' E" F 1?' =1745 7"3= !5 C"6%5f (

&16(3= 1C 3@ 1$ 163=47>31 f

=% ":=3 1 1C64H% =1745 E=4631 !5 C"6% 17>361 %6 1$ =%"6% 4.%53"%5 1=5=1?("4 (?6%FY (R 1= 461 %33 1= (46<=C353 !5 C"6% "6 =1745 47"% 461 %33 "6 E" "47 4 :=47 9 ":3 E" "47 61F %1F% !5 C"6% G" H%63 '1H% !5 C"6% =1 .45 ?6%F%5 !5 C"6% =% 1 1C64H% % 6@ 16?4 3 !5 C"6% 1= % 21% %6.%4 3 433 4F% =% ":=3 1 1C64H% .1 % 16?' C 3" :31F6% 1$(3=% 9" :? 7% 1$ 2134 ?' =% 1 1C34H% E". "47 1C 34:C(% !5 C"6% "6 C53" "4 5=47 461 %33 "6 !6457C5 16F"2= 461 %33 47%5 1H" 51 461 %33 "6 1= 1 74 461 %33 "6 % .47" 43=C653 9 ":=3 "6 443=": 1B% 9 ":=3 $=6"531>=%6 %$$%6>%5 !5 76% =46 %5 9"6<=47 !5 C"6% 63""C6 611<% !5 C"6% =1745 4"?F% !5 C"6% 1H%63 4631 G% 3$ &64 2"5 6C ?% !5 C"6% ":= =%6"$$% 1$ 3=% 1C 3@ 1$ 163=47>31 &64 2"5 64 % !5 C"6% 1643"1 16% !5 C"6% =1745 % " :$!5 C"6% 4 "C% 1 3 G% 3 % 6@ % 51 !5 C"6% "2=46?' 133% 46 5% "16 !5 C"6% 1= (17H5 !5 C"$% E" "47 ?475 1$ =46F%31 !5 C"6% 1= E" 531 !5 C"6% !?7C ?' 617F6"2= !5 C"6% =1745 6%31 G%" 3 "6 F" "47 64B% 9 ":=3 "6 1:%6 4B% 461 %33 E" "47 43%74 G%k"" !?F46?' 43<" 5 !5 C"6% =1745

D 11?F43?' G% 3 1= 6"?:%5 1= E%4B%6 E" "47 & %%3%F11?' =1745 51 =1745 43%5H@ E" "4" E" 716% !5 C"6%5 4@16 1$ ":=46 (&%66%65 $16 3=% 3"7% H%" :("6 "2% C??' 461 %33 =1745 !<" 5 E" "47 13% %6% &64 2"5 46H@ E" "47 ! 7%5 =1 "45 6"53 !5 C"6%5 4331> 1731 421H '4 2%6 (G% $ % 6@ C5=31 =1745 463F6":=3 ("2=46?' 475$16?' G%6646?(G16= 1H%63 6 31 % 6@ 421 1H%63 45%6":' =1745 %7H%631 1= 136@ !5 C"6%5 '4 "% # '4 B%65 '1$316 " =@5"2<% "6 1= "2<%6 :' 461 %33 "6 433=%F 'C? %@ 461 %33 %$$%6@ 4" 3%6 1$ 31<% '11 %@ !5 C"6% =% 1 1C64H% "? %@ E16?%@ 4"45 1C 34: % !5 C"6% =% ":=3 =1 1C64H%' E" "47 16?' &"35 E="475 1$ 3=% 9" :?17% 1$ 6%4 ?' =% 1 1C64H% =46 %5 %63"% 14= %4 %""6@ %4% 1= 1@ %@ E" "47 46<% 1= %7H%631 1= '"2<% 51 !5 C"6%5 1(= 466" 6 =1745 '%421 1H%63 %F217H 1:%6 %7H%631 =1745 1E6@ =46 %5 46<%6 1= 5= !?F46?' 4 3"?%65 G% 3%7% 1= % ?1.3 %6 46?' E4213 =1745 13=C653 !5 C"6%5 433=%F 69H%46% G% 3$ &64 2"5 4 % 1= 6%%?' ?6%F% 4 3(=46 %5 "?? %31 1H%63 4 5% 15%5 43=C653 !5 C"6%5 433=%F <" %6 '1416 " =@5"2< 1H%63 <" %6 !5 C"6% "6 1H%63 '6@?% 461 %33 E" "47 ;"5 % =46 %5 1F 1H%63 '167%3 47C% 6"53 !5 C"6%5 1="" 4:5=4 Ff 1= 6%5F% 1= E11?=4 =336 %5 &1I !5 C"6%5 "H$15% 1H%2= G% 3% &64 2"5 f 1= "!5 C"6% =% 4@16 1$ 642< %@ $16 3=% ?7% H%" :' 1H%63 &6%F" ''G% $$ 15%>= 4" %5 &64 2"5 16:4 G%16:% 9% ?662<% !?F46?' 3643$16?' E" "47 =C65H@ "6 1= 6"521% 9 ":=3 46B@ !<" 5 "2=46?' 12<F >?' =6"531>=%6 1C 34:C% !5 C"6%5 % 6@ &467% 6 % 6@ !?71 ?$ E" "47 43% 1H"45 =4C 2%@ &64 2"5 E11?=4 4 "C% 6@1 =1745 D 42<51 !5 C"6%5 1= 1?:%5 1$ 1C:64B% =16 31 5% "16 b$ 612<=4 "f

D (&1.' 3=% 1F % 1$ 163=47>31 'f' 'D (

=% 4@16 1$ 163=47>31 $16 3=% 3"7% H%" :' 1H%63 45" 6":' G%6646?' G16% 1""%63 6%31 '("2=46?' ' (E" 1C:=H@ !5 "6%5 1= 9 ":\=R]3' G% 3%74 1= %H@ 1= :64@$%"?' 1H%63 B%5 E" "47 ! 2% =1745 =4?F"2<% 1= 46<% 5% "16 1H%63 3@ %5 =%1>=" C5 E"5=31 E" "47 E4 "5 '4 "% %6H%63 =1745 E="3=16 ((((; (

&16 3=% 1C 3@ 1$ 163=C7H%64 ?//'

=% 1 1C64H% =46 %5 1C 34:C% =% 1 1C$4H% 4>= G6%@ "6 4>= '%4B4 "6 1= %61 "6 =1745 164" % "6 1H%63 !?% "6 !?F46?' 42<%33 "6 E" "47 :42<%33 D "6 &64 2"5("??% 461 %33$ "6 4>=(% " 51 "6 "2=46? . 1" %..' "6 &64 2"5 4<% "6 64 ?1 G%% 9 ":=3$ E" "47 &1653%6 =" ">' "2<%6534$$% 1:%6 &% F"2<% 7C% : % =1"=45 &1653%6 1= =4$31% 1= 4<%" ?' 1H%63 "3$16?' 1$ ":=" =1745 &1653%6 1$ 16 =" =1745 1 " :E11?' =1745 %42= 1= 4<"531 1= " ?7%65 1H%63 %F"2< 1= 46 4H@ E" "47 3613=%6 1$ &1H%66@(;E" "47 : % E" "47 466 "2=4% ' E% ?1 % 6@ f 17%5 =46 %5 1F46?' 1H%63 "3$16?' 1$ "3$16?' @63"5 F" %HC6 % !5 C"6%5 E" "47 4@16 15%>= 466 436"2"C5 61F% E" "47 %4B% %@(G%16:% '%4B4 'a =1745 % <"2="> 1H%$3 %HHC6 % 1= 421 1= 42<%33 1= ??"

% 3 '1% % ' ' %" %' N(

1H%63 4F51 =17 45 :11? 1H%63 =4531% !5 C"6%5 1H%63 "5 % 1= ' 61>%6' "2=46?' &16 53%6' 1= ' 1C 31 ' 47C% ' 4 <%" ? E" "4 7 ' 47 5%@' 1$ 6" <HC6 %.'E" "4 7' 3613=%6 1$ G6" ?1 "=.' &64 2"5 &165 3%6' % 6@ 1 " :F11? 1= ' G64@' =% 4@ "$$$ 1$ 16>%3=' $16 3=% 3"7% H%" :' 1H%63 &% F"2<% ß 4 >=' G6 @ 1$ 42<F163=' G%16:% 4F5 ' 1= ' &% F"2<% 4 >=' 64 ? " :' G" H%63 46<% G%16:% E" "21 ' 4 >=' ?%51 ' E" "4 7' %"651 ' =17 45 G64@' 1= ' 316@ 1= 1:%65 =17 45 C66% ' 1H%63 "5 % 1$ $ 45% ' 47C% ' E" "51 ' 1H%63 &% F"2<% 1$ %!=47' 4 2% 133 :11? 1= ' 67%5361 :% 3=1 @ =46>% 1= ' 466 E" "47' %"651 ' "2=46? 1FH64@ G% 3 :7%$'

'(&16 3=% 1F % 4 ? 1C 3@ 1$ %F2453 % C>1 @ %'!

=% 4@16 %2167%6 ?%67% ' 4 ?(=%6" $% $16 3=% 3@7% H%" :'ß "713=@ ' 4B"51 ' !5 C"6% 1= ' 42<" :31 ' >5 C"$% 15%>=' 466 !5 C"6% =17 45 %B 2<% !5 C"6% 3=1 @ 5442<51 ' !5 C"6% 15%>=' 3<" 51 ' !5 C"6% (% .47" ' ' 4B"51 ' !5 C"6%'!' ' ', ' &16 3=% 1F % 1$ %6F"2< C>1 F%%?!' (' ("6 &64 2"5 4<% 9>":=3 47C% ' : %' !5 C"6% E" "47' 466 !5 C"6% C>%63" " :';\.5] @ !5 C"6% !?F467 %4 51 ' !5 C"6%' 4@16 1= ' C2<' =17 45 4351 ' 3=1 @ 17>31 ' !5 C"6% 1= ' 6433 !5 C"6% ' 3%>=% ' 42<51 ' !5 C"6% !>=64"7' %4 51 !5 C"6% 1H%63 E4351=' E" "47' 2133 1= ' 51 ' !?F467 6?' 63=C6 !?33"%531 ' C3==%63 642@ 1H%63 "7>51 ' 4 >=' 62=H1 ?' 1= ' 34 31 ' "5 @ &16%5"?% 5% ">6 15%>=' 15?% ' 47%5 E4351 ' 1= ' 2133 \.C "16B' E" "47' 4F51 ' 1H%63 1?=47' 1= ' E" <" ' 1H%63 ' 1 <" ' G% 3 %7% !

16' 3=% 1C 3@ H$ 1 3 3 " : = 4 7 D

=% "!:=3 1 1C64H % E" "47' 16?' i 4 ?' 1 % 4 ?' %"6% 4>>46% 3 1$ 3=% 46 C%55% 1$ 4 "$41' =% "!:=3 1 1C64H % 436"2<"5 "521C 3 =4F 63=' K1$ 3=% " :?17% 1$ 6% 4 ?' =% 1 1C64H % 2="3% ' G6%@' !5 C"6% =% 1 1C64H % E" "47' @61 ' !5 C"6% "6 =17 45 E" 1C:=H@' "6 =17 45 46<" 5 461=%33$ K "6 2611>% 1E' "6 E" "47' 34 =1>% 9 ":=3$ &64 2"5 "%>1 3 1H%63 42=%B%6% ' "2=46?' 4 5$%" ?' =17 45 !F%5 E" "47' E" "47 5 =46 % 5 C32=" 51 (% 6@ C "36%% =">' =%664 6?' !5 "6%5 =17 45 4 5$=%46?' "2=46?' %4 %5 % 6@ \ 47H6"?:%;] 5% "16 1= '(316%@' E" "47' E1 =1C5% ' ' 26"75=%"$% 1$ 13:64B% "2=46?' 43%6' 47%5 &46%F% ' =17 45 =46>% 1H%63 42<%6 G% 3 %7$% ' 63=C6 E466% ' G%6B45' ":133 "2=46?' &46%F% ' =17 45 =46 31 =1>% 4 %@' &64 2"5 1 @ %C1' 4$1 %33 =46 %5 34 =1>% ' 462@' 1 @ %C1(1= ' =%6H611<% E" "47' C6 % " !5 C"6%5 "6 &62 2"5 1 @ %C1' 4$1 %33 =46 %5 34 =1>% ' 462@' 1 @ %C1(1= ' ', E" "47' ?(=17 45 %@' E" "47' " 2< %@' E" "47' 6(1F 1F' =17 45 %F?":43% %2" ' G11>%6' "2=1 51 ' 1$ 47 7 ' ":H@' E" "47' " 2< %@' E" "47' 6(1F 1F' =17 45 %F?":43% %2" ' G11>%6' "2=1 51 ' 1$ 47 7 15 ' =17 45 6"531"53 1= ' 36%@(%3%6 61C:=31 ' 5% "1& % 6@ =%6H611<% G% 3 %7% ' "2=46? %4 % 1= ' %4 % =4>%" ' C:=' 45<%6B" % "2=46? C6H"?:% G% 3 %7% ' (&64 2"5 4 ?@5 1= ' 9 ":=3 1= ' =16 =4:=' 1= ' 1= ' =4>%" ' C:=' 45<%6B" % "2=46? C6H"?:% G% 3 %7% ' (&64 2"5 4 ?@5 1= ' 9 ":=3 1= ' =16 =4:=' 1= ' 1" ((

47C% ' 61374 ' =1745 6"5>'1$' '46 $16?' G%16:%' ">>" :' 1$' '64@21 3'3 4 %5 %6H%63' E" $$">>"3":' 1$' !F% 7%' "2=46?' 6"?14<%' E" "47' 4<%' &64 2"5 166"5 1= ' C65%' 47%5 4C % $@' &4"6$4I' 1H%63' <" %6' !?7C ?' (E1>?5646?' B%"HC6@' E="3 12<' 1= ' 42=% ' "2=46?' 4F<" 5 !5 C"6%5 463=1 17%F' 466"5 1= ' 4651 5 G%16:%' E11?5646?' 1= ' E"2<=47' G6%:16@' 1$' (16 %@' G%16:%' (4B%' 1= ' 46@' =1745 1F %@' "2=46? 4@ 16' 1$' E" 52133 &64 2"5 9 4>>' 1H%63' 46 51 5 % 6@' 36%%3%' % 6@' 3%>=% 5(; =1745 463%6' G" H%63' 42<51 ' 1= ("2<$16?' &64 2"5 G"3% %F4@' "2=46?' !@4 5' 3=1 @' !@4 5' =1745 G6%% F11?' =1745 4>"%6' ("2=46?' =17>51 ' "2=1 45 C5H@' 1= ' 4F<" 5 1$' "31 ' C331 ' 1:= ' 1= ' 1:=" ' 463@' 4@' 1= ' E=%% %?' 1= ' 6"5>% 4F6% 2% 16?' 1= ' 612<%33' 1= ' '1?F% ' 1= ' E"5%' 1$' '64@31 ' 1= ' ' 7"3=' G" %5 ' '"531 ' =1745 1 $' "2=46?' (61<%' "2=46?' 42<=4 ' G%16:%' G11?" :' 1$' 432=$16?' 1= ' =16%31 ' 1H%63' 343"?463' %`4 $% ' 9 ":=3' 1= ' 1<%6' =1745 16?4 ' =1745 H% ' 1$' E="7%@' 1= ' E" >F" !?F46?' E="53 %6' 1$' G43=47>31 ' =1745 C6 %6' "2=46?' 4@133' 4 >=' E="53 %6' 5% "16' 4 >=' E="53 %6' .C "16' 1= ' @?4 ' &64 2"5 '64<%' G% 3%7% ' ' % 6@' @ %F163=' % 6@' %%51 ' '1$ 165' " ' 4F%' '6' % 6@' 166"5 63=C6' E466% ' !5 C"6%' =%' 4@16' ?%67% ' 4 ?' 1F % %6<5' 1$' E11?5312<' $16' 3=% 3"7% (H%" :' =%' 4@16' 3%F46?' ?%67% ' %216?%6 ' 4 ? 1F % %6<%' 1$' 4 HC6@' $16' 3=% 3"7% H%" :' =%' E46?% ' 1$' % %@' $16' 3=% 3"7% =%" :' =%' 4@ "$%5' 1$' =">." :' 1631 ' C6U6?' 4 ?(E"3 %@' $16' 3=% 3"7% H%" :' =46%5 1 3' =1745 16F11?' 1= ' '167%6' 1$' 1C5=4"4' 1HH 1$??%HC6@' % 6@' 5=C653' !5 C"6%5 1H' C33' G% 3%74 'f'

&16' 3=%' ' "B%65"3@' 1$' I$16?'/

'6' % 6@' ?6"2=' '%4 % 1$' =6"53 "C$2=' 4 ?' @"2% =4 2% 16' =%' 1 13"34H% % %4:%' &" 2=' !5 C"6%' E" "47' %1>1?' &" 2=' E46.%' 1$' 1C %5' 1 %?:%' "6' =1745' 46:%5 8 ' '6' % 6@' %1531 ' E46?% '1$' %F 1 %?:%' '6' E" "4 ' %B" `' 6%5"?% 3' 1$' (1= 5' 1 %?:' '6("713$"@' 4<1 ' 6>B153' 1$' 0C%% %5' 1 %?:%' '6(E" "47' 4 % 3=% 'F" "3@' 61$%5516' '6 E" "47' %B%33' 6" 2">4#' 1$' 4:?4%' 4 ' '6(1= ' 4771 ?' '6(4>=' 43=C653' 6%5"?% 3' 1$' 6" "3@ 1 %?:%' '6(; ;=1745' C6 %6' 6%5"?% 3' 1$' 16>C5 =6"53"(1 %?:%' '6(=1745' 1B$3="%6' '6("2=46?' @?4 ' '1$316' 1 43=4 ' !?F46?$' 6" 2">4 ' 1$' %5C5 1 %?:%' '6(1:%6' 4C?%6' 453%6' 1$' 4"1 ' 1 %?:%' '6(%&"3` =%3H463' ?475' %?316' 1$' " 21 %' 1 %?:%' '6' 63=C6' =46%33' 453%6' 1$' "B%65"3@%' 1 %?:%' '6' =1745' 4@@' 6" 2">4# 1$' %F' ' 4 ' =%' 61$3165' $16' 3=% 3"7% 6' % .47" ' 11>%6(=1745' 1.B=@' 5% "16 =>745' 1F @.C "16' 1= ' &C <%' =%1>=" C5' 1@=3%6' E" "47' 4@ 16' G%16:%' =17>51 ' 421H' 1H463'f

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=%' 4@16 1$' 3=%' "3@' 1$' I$16?' $16' 3=% 3"7% H%" :' 1 34:C% 16?' 166"5 1 >%' 4 ?' %"6% >>46% 3' 31' 3=% !3 % 1$' H" :?1>(=%' 1 1H% % 6@' %63"% !5 C"6%' "6' 1H%63' % <" 51 ' "6' 1H%63' '1@@' ("6' 1H%63' '45=B 11?("6' %3"6@' 5=C653(461 %335' "6' !?F46?' 166"5 "6' !?7C ?' E462C>>' "6' E" "47' E4<%6' "6' %H453"4 ' 7"3=' "6' 1H%63' 466"51 ' 9 ":=3$' (1= ' 1F %5% ?' =1745' !C5342%' "2=46?' 4F<" 5' ?%67% ' (E" "47' E6":=3' !5 C"6%' %216?%6' =46%5 1 1F4@' =1745' 463%6' 1= ' 4F<" 5' !5 C"(6%5 3=1 @' !@4 5' 1H"45' 61F %' 1= ' 1F%' !?F46?' 17H%5 =1745' C 5?% ' "2=46?' 463%6' % 6@' E="3%' 1= ' 61 %@' =46%5' (466"5 "2=46?' 46<%' G% ?%7% ' =%' 4@ "$$$ $16' 3=% 3"7% H%" :' !?F46?' 6" 2%' G% 3%' 1F % %6<%' !?F46?' \ 163%6G% 3%' 6(=1745' ?475' 1 $%221 %6' 6(47>51 ' 4F" 5' 6' %I4 ?%6' E6":=3

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=%' ":=3' 1 1""64H% "6' 1= 6%B16' 9 ":=3' >%4<%6' 1$' 3=%' 1 1464=% 1C5%' 1$' 17H 5(4 ?' &"653' 16?' (17"55"1 %$' 1$' 3=%' 6%43%' %4 % 1$' ! :4 ?'4 ?' 1 % 1$' =%"6>' 4.%53"%5 7153' >C>C64H% 3"B@%' 1C 2% ' =%' ":=3' 1 1C64H% =46 %5' 16?' 64 ?1 ' 1 % 4 ?' %"6% >>46% 3' 1$' 3=%' ":=3' 1 1C64H% =46 %5' !46 %' 1$' 42<%5$%"?' =% 1 1C64H% "2=46?' %F>163' 4 ?' ?6%F' %E>163' !5 C"6%5 "3' % 6@' "33 %31 ' "6' 1= ' ?B%51 ' G1F(%6' "6' E" "47' E="37 16%' "6' C7>=6%@' 6":::$' "6' 1= ' 16 %33' "6' &64 2"5 4C %@' $6' B%?4 ' 16H%33' " '!?F46?' $31 ' "6' "2=46?' "?? %31 ' "6' =1745' "33 %31 '("6' 1H =46 %31 ' "6' =1745' E116"%=' "6' E" "47' E" "475' "6'(&64 2"5 !?F46?$' "6' !?F46?' 4" =31 (461 %33$' "6' =1745' 64B% ' "6' E" " ' 42? ' =" ?' "6' ?47' 4?%@' "6' 1H%63' F% ' "6' E" "47' &166%53%6' "6' % 6@' G1C:=' 9 ":=3$' %6B"2%' "%6>1" 3' E" "47' &1F %6' &64 2"5 =46 %31 ' 1$' > %@' 1= ' =46 %31 ' 63=C6' 4@ %F46" :' "2=46?' %"53%6' !?F46?' 9" 4531 ' '1$' 43 %@' !?F46?' " 4531 ' 1$' 16? %@' 1K=' 9" 4531 ' &64 2"5 ' 6" 2% ' % 6@' %6H%63' !67"2"5 %6H%63' !?F46?' F% (1$' C ?1B%6' G%16:%' E% ? E" "47' 4<% %@' 1H%63' 16H%33' =1745' 12<' 1= ' 143%5 ' =46 %5' 143%5 "2=46?' 116% E43%6' E46" :' =46 %5' 4?F@ % 1H%63' 6%55%3' 1H%63' F% ' 1:%6 1>%' % "16' 1:%6' 1>% .C "16' "2=46?' 6%55F% ' 1= ' ?21 ' =1745' 43 %@' 453%6' %6.%4 3' 1E"5 % 6@' %F31 ' &64 2"5 =46 %31 ' 1$' &="31 ' =1745' 16 F4 ' 463=1 17%F' C3 %@' =" ">' C33 %@' =1745' 4 7%6' % 6@' '4B% >163' ! ?6%?' 4 2% 133

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!?B@46?$ "2=46? 16H%33 1H%63 1F%5 E" "47 G1F%6 1= 4 "%C6% =1 45 C631 =1745 74 74
1C? %@ !@31 1H%.3 ":%33 =1745 ":%33 E" .47 1C :=1745 E" :$%" ? =1745 42<F163=' 1= !?F46?$
1$ 16" :31 1= 1F% =1745 1F% 1$ 46<% 1= E463%6 &64 2"5 46< %@ 63=C6 E%4B%6 47%5 G61 %
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"71 4 7%6 G% 3%7% 1%' 1$ 41>' !?F46? "33%31 "2=46? "::1 5 1= E" "475 G4H6"% "
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1C? %6 1$ 6 5213 1= 4 : %@ >$ 3=% 7"%5 =1745 6C7>31 4 2% 133 3%>=% 5 1= $4513 1$ C2=F% 12<'
>= 3<" 51 '1$316 1$ >="5"2<% !5 C"6%5 4@ .% '1? >6 1$ =@5"2<% 4 % 3" % '4F%5 =1745 %4 1=
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=46 %31" 1$ E="33%>' "6 E43%6 E" "475 461 %33 &64 2"5 %6H%63 !5 C"6% "45 "3C5 !5 C"6% 1H E4 <%6
!5 C"6% 433=%F 6"2% "2=46? 3%?74 !?F46? "33 %31 E?"47 G1F%6 "2=46? ":%5 1$ 3" 31 1=
3<" 51 '1$316 1$ >="5"2<% !5 C"6%5 4@ .% '1? >6 1$ =@5"2<% 4 % 3" % '4F%5 =1745 %4 1=
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("6 1= 4" 3 46H "6 E" "47 4 % 461 %33$ "6 !?F46? =">5 $ =1745 6"?:%5 "6 E" "47 455%33 "6
G%16:% 1631 "6 "2=46? 463 "6 1= 9 ":=3 "6 3%>=% &1I "6 E" .47 E1:4 "6 =46 %5 463%6%33 "6
=1745 34B% 9 ":=3$ % 6@ 1634 43=4 "% 4 7%6 =174Y 334 :%F4@%5 G%16:% 16 %6 !?F46? %6<% %@
%I4 ?%6 1>=47 1>31 E@ ?=47 1= C 3 1= 4 ?$16? 1= '>%<% %I4 ?%6 C33%6% 15%>=' 4 :"
!?F46? 46<% !?F46? G16:%5 1= E@ ?=47 E" "47 % @H6 5% "16 E" "47 % @46 .C "16 46% E' "?74@
D E46F"2< 47>$%" ? X 6@ C 1= '(@:133 !?F46? 4H16 E" "47 G16% G%16:% 1 :' E "47 42@ !?7C ?
E@ ?=47 4?F" 4 %33 "2=46?&1F %5 E" "47 \ =% ?% =1745 46% 1$ C 517; % 6@ G1? E" "47
361?% 3=1 @ !3=6"2<% E" "47 !3=6"2<% 1= 466" :31 "2=46$ 16:4 !?F46? 1HH5 M =46 %5 3%@ " .
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57:1 "2=46? G6 55% E" "47 1F46? E" "47 =% ">5 E" "47 " "46? 33B %4 3.=1 @ 312<%6 % 6@
@3% % 6@ 17>%551 '(=1745 361?% 1H%63 @?%6$" (E" "47 46H" 1= C%33 $ 9 1% 1= 1F ?6%F
6155% 47%5 4?% G%16:% '1?" :31 1$ E% $ G%16:% C5:61B 1H%63 1 :' &64C?5 4C:=4 G%16:% 46<%
"2=46? 4335?1F % =1745 '"<% E"=47 (43$16? 1= E163=' GC534@C5 % %6 !?F46? '@<% E?"47 4@%6
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D E" "47 E="32=C62=' 1= C6 46"? 1= !B@46? 47C% 16 %6 !?7C ? 1F@%6 1= 3642=%@ 'G%16:% 643 6
"2=1 45 &64 2"5 E" "47 &64 2"5 % 6@ E" 3%6 =1745 47H17% =">' %= %33(1= 21C6$!?F46? \. =C6531 ;]'
E" 947 C2V% =1" 4 %?:" :=47 47C% 4@7> ? % 6@; 6%33 1H%63 4<% =1745 C7 %6 465=4
6"?:%5 " 46$ G11?% 1C:=' 1H%63 6"2% 1$ 43=' 433="45 4 B % 16 %"45 @?% E" "47 @?% E" "47 131
=1745 617>31 1= 774 1= %6%$%" ? 1= E" "475 1= 6"2% =1745 4>>%6 =1745 4 :?1
'4B"?(%4 !?F<6? @?%6 1= '(61F % !?F46? 421 1= 9%% % % 6@ 61$$%6 % 6@ 1 %6 E" "47
4" =1745 4 <%6 !5 C"6%5 &64 2"5 1HH46? E" "47 "5:11? ?$"2=46? 1F %6 46? 7"3=' "2=46? E@433
=1745 4<%6 47C% " ?1 1= &6" ? =1745 (G61B%5 =1745 1F% 5 "2=145 46< 5 1= %6%5$>6?
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&16 3=% "3@ 4 ? 1 3@ 1$3=% .3@ 1$ 6"531 'ix

i?7C ? 6C ?% ' i5 C"6%] $%@16 "6 E" "47' 4 ' 461 %33' "6 "2=467 $3463 "6 " =467 6C7>% "6 174 ' i46 % "6 ' 9 ":=3 "6 E" "47' C33%3H11<% "6 E" "47' 4@743" "6 E"".'4"33 %66"2$%" "6 1=' C??%531 % # $. ;' %.%4 3 1F %33 %2167%6 1=' "2<$ E"='4 7' 64HH' 15%>=' 6%5F"%<% E" "4F' F@647%6 "2=467 ' 1745 '4@ E" "47' 42<51 ' 63=C6 46(3 i5 C"6%5 ?%6 7 % ' 1=' ,C331 1 3 ,' 175%@ 15%>=' 9 ":=3 "713=@ 46<%6 43=4 "%' 4:.433 43=47,%":' '6"@%6' G" 5 %66"2<% 1H%63' 43%' G 16:% 16:4 ' i?F467 12< % ' 1H%63 % @ i5 C"6%5 =%(=%6"$$%5($16 3=% 3"7% H%" :' 1=' 4 ?$16? E"='4 5 1.% 1=' CHH 1=' 42<F% ' 1H%63 '1E3" :' 1=' %1744 5 1=' =%4?F4@ E" "47' >"% " ?% =1745 i?F467%5 C7>=6%@ 165"%@ 22L$;G46@ G% 3 %7 % ' % 6@ G"HH5 "2=467 1?6"=:31 ' ,1H%63 i5 C"6%5 =17457 i?F467 1 %5"' 1C ?' i?F467? ' W @ (' 4 3 = R

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=% ":=3 1 1C64H % "6 1H%63 1F46? 1 % 1$ =%"6% 4.%53"%5 7153 1 1C64H % 6"B@% 1C 2" =% 1 1C64H % % %4:% " 2= =% 1 1C64H % &64 2"5 1B% 36@ =% 1 1C64H % C:= 46% !5 C"6%5 "6 E4 3%6 3(1= "$ &64 2"5 " 2% 3 "6 4674?C<% G6%5=47 "6 "2=46? 51F "6 1= =17>51 "6 =1745 46:%5 "6 (E4 3%6 46:%5 "6 E" "47 'C 217H "6 !?@B46? 617$%" ? "6 E" "47 %7>% "6 1H%63 4>"%6 "6 "2=46? 3<" 5 "6 E" "47 G@ "6 15%>= 531 461 %33$ =% 1 1C64H % "6 &64 2"5 17>31 "6 1= "2=145 9 ":=3 1$ 3=% 43= "6 E" "47 E16%@ 9 ":=3 1$ 3=% 43=("6 E" "47 15<" 5 "6 433=%F ?6%F%5 "6 3(1= 61?%."2<% "6 1H%63 4@3H =C6H%2< %7>% "6 47%5 46<% "6 =6"531>=%" C2<%" "6 16 F4 64?5=4F% "6 47%5 C3%6 "6 E" "47 ! "133 "6 1H%63 9 ":=3@ "6 %3%6 4 '% "6 E" "47 '45=F11? "6 !?F46? &6C" "6 1= 4651 5 "6 =1745 %6 1 "6 %3%6 4 ?%>C33,"6 E" "47 " "6 1:%6 =%: :13$ "6 =46%5 %?:%5 "6 1= %7>%D "6 E" "47 G16% "6 !?F46? '$%5H1B%6@ "6 E" "47 %4F% 9" =3 o V_"2=4% !?F46?$ ":= =%6"$$% 1$ 3=% 1C 3@ 1$ $6%@ 6 %6.%4 3 &C %6 =13>45 1F46? G%16:% !B% @ % 6@ 3 1= =1745 " 2% 3 1:%6 47%5 =1745 C6:"5 3=1 @ 1F@%6'% `" 5 1F E="3% "2=H>6 % 16:4 4 ?@ &113 5 1F 1= E%531 !?F46? "2=145 G16:% !B% @ '(G%16:% 1? %@ 6"?:%5 1= 6 1? 1= !B% " :' ="> " "46? !?E46? 46B%@ E" "47 61E 1F 4>3"53 4@ 47%5 s1C2= G%16:% E11?61$$% "2=145 46%E 7H615% 61F % 1= <% %6 "2=46? G463= % 6@ % %RE" "47 &% F"2< =1745 1331 E" "47 13%@ 3=1 @ =1745 4%536%%3% 47%5 ":"571 ? 3"?1>= G%16:% 'C 217H !?F46? 64@ 1= 4 ?5 E" "47 1<%6 "2=46? "2=1 $ =%7 6"?:%5 "2=46? 13%@ 7H615% C52=47>% %3%6 C55%@ E" "47 46B%@ "2$"46? (51F =6"531>=%6 C2<% =1745 4>3 1= G16%K &64 2"5 6% ? E" "47 4331 =46 31 E="3 12< 3%>=% 46B%@ 1H%63 G4B" 1= C6:1@ % 1= =@ E. 47 %66@ E" "47 C3=4 1= !1B% G%16:% 7"3= E" "47 %@F46? 1= "32=% % 6@ E="53%6 1= (E":=3 1H%63 (4331 =1745 (64>> % 6@ C?1F %1$$%6@ 7=C653 % 6@ 1@? E" "47 6"?:74 1= %43=%6 E" "47 46<% 463" &1<%5 1= C6 %6 47C% %F% 1= %33@F46? !?F46? =C64 ? =174 1" %CI % 6@ " 2% 3 1= 4651 5 1= C::! ?6%? 4 2% 133 %% 47C% 6"5>% .C "16 "2=145 E43= "2=145 &%= 4>34">% D 471 ?% .47" % 4 %="> &153%6 !?F46? 4 % 4>= 1F E" "47 G% %F 47 % 17%6$13? 1H%63 4C ?%65 47C% %33 G%16:% G16%" :' "2=145 E4"3% 1H%63 '1F:45 E" "47 G?531 47%5 =4?F"2< 4 2% 133 1= 531 E. "47 4$<% 1= :46 =1745 E="3% 4>= 1C:= =1745 E"3321> E 47 612<74 C"C5 G4B" %546 64?5=4F 1= C2<F163= G%16:% %6 1 "2= =1(4C 31 =6"531>=%6 G%336@ 5% "16 1= 15<" 5 &64632"5 G15$6":=3 &64 2"5 433% =1745 E@71 ?%51 ? 1= C53% E" "47 113=H@ 1H%63 116% 47%5 113= 47C% 6"5>% 5% "16 1= 47>463 1= " %6 !?F46? E11?F46? "71 7"3= 15%>= 4 ?? >% 2%6 11>%6 %63C% 4?$16? G%16:% 3F11? "2=46? 16:4 1= '%%4C %H6@ G6"$$%3= =1745 1%$%"? 11%' %"62% 47%' 3<" 51 1= 4F" :' 1= 9% 6"2 1= <=H 6 % =6"531>=%6 6%5F% % 6@ E" ? 51 =1745 (E="3% !5 C"6%5 =% 4@16 1$ GC"$16? $16 3= 3"7% H%" :(4I"7""4 !7%<@ "713=@ E"51 15%>= %% 4C ?%6 1$ 113" :' 15"45 '%E@ 1= 15<" 5 =1745 C661C:=5 1= 463@6 H= =" ? % 6@ &C33%6 !?F46? &16? 1= " =1745 7"3= %3%6 C% % % 6@ 4C ?%65 =% 4@ "$$$ 1$ 9" :531 $16 3=% 3"7% H%" :' =% 4@ "$$$ 1$ &46 =47K $16 3=% 3"7% H%" :' "2=46? 9% 5%@ "2=46? E="3% !?F46? "H@ 1H%63 ": 1? 6H4 (4 4F6% 2% 462= 1= >% 2%6 "2=46? %F% =1745 466"5 4>34" % 463=117%F =1745 16?4 1$ G 3F"2= E"."47 16?4 '1$316 C?:%1 =1745 16?4 "2=46? GF@ % 6@ 1= 51 E" "47 C77%65 %3%6 16H61F 1H%63 1@%6 =1745 C5?% G% 46? ?6%F%5;' % 6@ E@433 1= C62=%33 %3%6 C:=%5 E" "47 '16@`1 1= 36%%3;' 1= !@%65%33 "55%5 C 3 1= %66@' 1= @7H4 %3%6 9%53%674 E" "47 C7H@ 5442 1I %1 46? 4771 ? =1745 4771 ? 8; % 6@ @ % =6"531>=%6 7"3= E" "47 =613< 1 45 ="5= '4 "% E":=3 =1745 16?4 1= G6%% % 15%>= E11? =46 %5 =163%6 =1745 CI1 E" "47 F11? E43%6 %6 1 !?F46? 36 G%16:% %43= 1H%63; 6"531F E" "47 %H12< =1745 4 % "2=145 11<%5 1= 1I %=%7"4= 1C6 % "2=46? 1F5%@ H64=47 466"51 1= " %1 E" "47 4?% 4>= '64<% 1= %671 % .47" 1 F"2< 1= 1@5 "2=46? '%B1 &64 2"5 %66"6":=47 1= 42?51 E" "47 G64@ 1= "2=1 $!?F46? '"7H%@ E" "47 33F11? =1745 16?4 1= B11? 1= E11? '4 "% E6":=3 5% "16 E" "47 C33%6 1= G%6646? 47C% %"651 &64 2"5 G15$6":=3

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=% "':=3 1 1C64H % 3=% 16? "521C 3 "B"133 1$ 3=% 9" :?17% 1$ 213 4 ?' =%' "':=3 >1C64H % 3=% 16?' , H@ 1$ 3=% 9" :?17% 1$ 6% 4 ?(=%' 1 1C$4H % 1H%63' E6"%@ i5 C"6% =% 1 1C64H % &64 2"5 G6%B" ' i5 C"6% =% 1 1C64H % =17 45 1B% 36@ i5 C"6% "6 1= ' 1624 3 "3 =46 %5 1 "6 "71 ' 46<% "6 X "2=46? %7> % "6 %7 % 3 &"5=%6 "6 E. 47' 1C:=31 ' "6 421H 53 %@' "6 1= ' 6"?:>"4 ' "6 =46 %5 =':"2<HC6:=("6 =17 45 47F% ' "6 E" "47' E=%% %6 "6 1= ' CH4 ?' "6 %:" 4 ?' &153%6 "6 45" ' 6"2% =17?% '("2=46? C32=%6 G%16:% : 4 ?%6 3%>=%' &C %6 E" "47' %2=%@ G% 3 %7% ' %3%6 1C63=1>% "2=46? =%"%@ 1= '0 %F =47' i5 C"6%5 % 6@ 43%5 1= ' 146? 43=4 "% ' C6 %6 i?F467 4 " :' 1= ' G611 7 %

1= ' E% %6 1= ' 4<%6 E" "47' 46<% i5 C"6%5 E4 5" :=47' "32=% ' 1= ' 3%F467 4F6 % 2% 212<' 1= '

0 >471' =1745 %35F163=' .C "16 61C2=%33 =1745 =4674 ' E" "47' %F%6 47C% ' C 3 E" "47' 46<% G% 3 %7% ' 3%>=% ' % $16? % 6@ %%<=47' =1745 E%53% % 5% "16 47C% ' E%5316 % G%16:% i $16? 1= ' % 433 "2=467 14<%5 '4 "% ' G"331 5 =1745 C66@ i?7C ? %:1%5 G% 3 %7% ' "2=467 46<%6 C:=' %451 ' 1H%63 4<%6 1= ' " 5=4E% '1$ &46 %@ 433=%F% E="3% =1745 =%>>467 G%16:% =16 31 ' % 6@ 3@ %5 1$ 45% %6 G% 3 %7% ' =6"531=%6 9 "::=3 i5 C"6% =1745 6%6%31 ' =1745 i "5 G% 3 %7% ' "2=46? (46. ;' 1= ' %%<=47' i5 C"6% G%16:% 5H16 % 3%>=% ' %6"7" ' %F"5 C2< % 1= ' C5H6"?:% "2=1 45 1B%63(=1745 % 3133 >$ E4=C653 1= ' E=%% %6 1$ 7" :31 ' =1745 11 % 1$ %F' =16%=47' G% 3 %7% '/

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1= ' E% %6 1= ' 4<%6 E" "47' 46<% i5 C"6%5 E4 5" :=47' "32=% ' 1= ' 3%F467 4F6 % 2% 212<' 1= '

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1= ' E% %6 1= ' 4<%6 E" "47' 46<% i5 C"6%5 E4 5" :=47' "32=% ' 1= ' 3%F467 4F6 % 2% 212<' 1= '

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SA; *E % ' &' ! ' ') DFD

5"6 "2=46? %F?":43% 461 %33$ "6 E" "47 ?%6=" " "6 1= ' 1>31 ' "6 E" "47 64B% ' "6 ?6%F 42<%6 "6 E" "47 D "5=1> "6 "2=46? %6 %@ "6 =1745 4F" 51 ' 9 ":=3$ E" "47 617 %@(?6%F 62=%6 1H%63 C6?%33 E43%6 =%3F@ ?% !5 C"6%5 =1745 4F" 5 %6.%4 3 433 4F% E" "47 %@31% G%16:% C2@% 1H%63 17%6B" %(45" ' &%" ?" :' 6?% ' ??%6 @ %4H6":=3 %>" :31 ' !?F46? 1>31 ' =1745 E4:534$$% 6?% ' 4:133 E" "47 4 7%6 "2=46? 1><" 5 =46 %5 9 13%5$16? C7>=6%@ E@6 %@ % 6@ 42<%6 =46 %5 %F5=47 =1745 9%43% =1745 &%3=%6531 ' =1745 ?6%F%5(!?F46? % 3 %@ 453" :$:647 =46 %5 % % 5 E" "47 1%716% E46? '"<% E" "47 'C:?4% E" "47 131 ' 1H%63 %6B%@ "71 ' "??C>9 &64 2"5 &"5=%6 % 6@ G6%% % C7>=6%@ 1C:=31 ' &64 2"5 1C:=31 ' !?3@46? 1C:=31 ' 1= ' =C2<HC6:=% "2=4% ' "??C>= 47%5 C?$16? 1= ' 1" =%5 1= ' &467%6 =1745 %%65 &"5=%6 E% >B163= 4"45 '"<% 6"2% '%B%6%CI ' %6 46? E=4 %@ =1745 %F5=47 G%16:% 1 ' % 6@ ' %4% !5 C"6%5 1= ' 46<% 1= ' 53%@ =1745 62=%6 1= ' 46"133 1= ' % % 5 C7>=6%@ 1?% ' &64 2"5 4:5=4F =%1?16% 3643$16? E" "47 1::" ' 1= ' %F5=47 G%16:% &C F11? D 7H615% 1H%%2= "713=@ 31C:=31 ' 1= ' >> %36%% 1= ' 34 31 ' 1H%63 E" 21I ' 1= ' ?6%F%5 1H %46?5 %@ G%16:% 51>% G% 3 % "% ' =% 4@16 1$ 3643$16? $16 3=% 3"7% H%" :' =% 4@ "$&$(1$ 47F163= $16 ' 3=% 3"7% H%" :'

&16 3=% "3@ 4 ? 1C 3@ 1$ 3=% "3@ 1$ 1B% 36@/

=% 4@16 $16; 3=% 3"7% H%" :' 43H4 "% ' 466@74 ' &64 2"5 466@74 ' !?F46? F% ' =1745 !4F6% 2% ?%67% ' "6 1= ' 'C:?4% 9 ":=3 "2=46? 1><$3"5 1= ' 3643$1"? 45" ' &%" ?" :' E" "47 1631 ' % 6@ ' G6%% %;' !?F46? 4@16 G%16:% 1F ' 1= ' 1F43%6 HH%33 %4<g ($=1745 C6:=' =1 45 1><" 5 =1745 (G%6@ !5 C"6%5 !?F46? " ' =1745 4@@ % 6@ 7"3= 1H%63 7"3=("71 ' C631 ' =>745 9" :' C7>=6%@ D C631 ' G% 3%7% 'f' ' (

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5"6' "2=46?' 4 ' "6' 42<B" ' 61F%' "6' "2%' C??' "6' E" "47' C55% ' 461 %3$$' "6' " % E" "475' 9 ":=3' "6' 1= ' 1E% ' 9 ":=3' 1 %(1$' =%"6%' 4.%53"%5' C53"2%5' 1$' 3=%' 1C63' 1$' 171 ' %45' "6' E" "47' (E1:4 ' 9 ":=3' =%"6%' 4.%53"%5' %6.%4 3' 433' F%' "6' 64 ?1(G%%' "2=46?' 4C:=4 ' 1$' %6646 1%?e8G6"$$"3=' "2%' 1= ' 6%?% =47' =1745' 16 F4 "5' =F 4 ?' GF@ %' =6"531>=%6' "?? %31 ' =1745' F@?' 1$' %6 4 ?1F" ' "2=46?' 4C:=4 ' 1$' 1C63' ('%6 @5(' "2=46?' 1 %5' 4674?C<%(' E" "475' 1= ' E" "475' 1$' H%6213=@' '4 "% ' !B4 5' =1745' 1@?' 1$' 3'@' 4? 1%' "2=46?' GF@ %(' 1$' GF%7>4' G6"$$"3=' 1@?' 4F %":=' 4 5% ' !?F46?' 4 5% ' =1745' 1F% ' % 6@' 4 5% ' 42<B" % GF@ % 1:%6' 4=F46%" :' % 6@' F% 5' !?F46?' 4C:=4 ' E" "47' C55% ' 461 %3$$' "6' " % E" "475' 9 ":=3' "6' 1= ' 1E% ' 9 ":=3' 1 %(1$' =%"6%' 4.%53"%5' C53"2%5' 1$' 3=%' 1C63' 1$' 171 ' %45' "6' E" "47' (E1:4 ' 9 ":=3' =%"6%' 4.%53"%5' %6.%4 3' 433' F%' "6' 64 ?1(G%%' "2=46?' 4C:=4 ' 1$' %6646 1%?e8G6"$$"3=' "2%' 1= ' 6%?% =47' =1745' 16 F4 "5' =F 4 ?' GF@ %' =6"531>=%6' "?? %31 ' =1745' F@?' 1$' %6 4 ?1F" ' "2=46?' 4C:=4 ' 1$' 1C63' ('%6 @5(' "2=46?' 1 %5' 4674?C<%(' E" "475' 1= ' E" "475' 1$' H%6213=@' '4 "% ' !B4 5' =1745' 1@?' 1$' 3'@' 4? 1%' "2=46?' GF@ %(' 1$' GF%7>4' G6"$$"3=' 1@?' 4F %":=' 4 5% ' !?F46?' 4 5% ' =1745' 1F% ' % 6@' 4 5% ' 42<B" % GF@ % 1:%6' 4=F46%" :' % 6@' F% 5' !?F46?' 4C:=4 ' E" "47' 6":5312<% =1745' 1@?' 1$' '4 ' @6' 3' 63=C6' GF@ % .7' E" "475' 1$' 4 %@' =1745' GF@ %' 3=C' % ?%6' !?3 46?' 1 %5' 1$' %3=%6 1"43=' % 6@' 1@?' 1$(' 4 53%>=4 ' &64 035' 1@?' E" "47' %B4 5' 1$' % ' @' 21%?' 1= ' =" ">5' 1$' '1%=4"??' 1= ' E" "475' 1$' 467463=% ' 47C% ' C:=%5' E4 3%6' =1745' &64 2"5' 61F %' !5 C"6%5' G%16:%' GF@ % 3=1 @' C??' '4B"??' GF@ %' E" "47' GF@ %' =1745' 4 F46%" :' F% ' 1F% ' =1745(' =" ">5' 1$' 9" 54 3' % 6@' %F"5' G6"$$"3=' ! "133' 1= ' 4C:=46 % E" "4 .' %@ 1 ' !?F46?' 1 %5' 1$' 6%:"H' '4B"?' %F"5' 1$' @5 %F"??' % 6@' 4 :=4=' 1$' 42% GF@ % 1= '0 > %5' 1$' 1%H611<% E" "47' >":5312<%' 47%5' =" ">5' s42=46"45' %B4 5' 4 "% ' " %:46' =1745' =1745' % 6@' =" >% 47%5' 1 %5' 1$' '1 % 13=@' 16:4 ' 1@?' 1$' 4 5%B" ' =1745' '4B"%5' 1$' 94%' % $%" ' %F"5' 6"2% E4 3%6' 16:4 ' C:=' 1 %5' 3=1 @' E" "475' % .$"7" ' %F"5' E" "47' '4B"=' 1$' '6C5 1@ % =46 %5' ;'4 31 ' =1745' =" ">5' 1$' 4 3=461:' '4B"?' !B4 5' 4 ?' !B4 ' 6"2%' G% 3%7% ' 47C% ' 1@?' 1$' &166%53' G% 3%74 '

&16(3=%' 161C:=' 1$' 467463=% /

=%' 4@16' ?%67% 171 ' 1C 2" '0 =47H%64" % 4 ?' =%6"$$%5' $16' 3=%' 3"7%' H%" :' "6' 42<B" %' 61F%' "6' ("2% C??' "6' C:=' F% ' 461 %33$' "6' "2%' E" "475' 9 ":=3' 1F 4 ?' GF@ %' =1745' F"?' G6"$$"3=' 1@?' !?F46?' 4C:=4 ' E" "47' 6":5312<' % 6@' 1@?' 4674?C<%' E" "475' !5 C"6%5(' =1745(' F46%" :' 1= ' !?F46?$' G%16:%' %F"5' =%1>=" C5' %B4 5' 1= ' E" "475' 1= ' 2C6 12<%' G6"$$"3=' E" "475' 3=1 @' 1>%5f' G% 3%7%

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6%B16 1= ' 1@?' 1$' \ GF46@2=']' "? %@ G1?1 >=" ' 1= ' > %531 ' !?F46?' E@ %' '1$' 4 @$@??' 1= ' 4%57 6% E" "47' C33%6 %??' 1@?' %3%6 ! "5 1= ' '1 =% ' !?F46?' =47H%65 1= ' 5>11 %' =1745 E ="3 %@' 1= E" "475 '4B"?' E" "475 !5 C"6%5 1H%63 E@ %' 1$' G463=%F"=' =4 2% 16 1$' ((54>=' &64 2"5 1@?' R %$?6 1$' 4 ?C6 1:' 1H%63 E@"7%' 1$' G463=72" "1' "? %@' C %6 1= ' C %531 ' 1$' "2<=" ' 1= ' E@ %' 1$' !46 (!?.B46?' G6" !3=' 1$ G47 ' "?.46?' !@31 ' 113=' 45 %33 !?F46?' 1@?' 1$ 42%'' 4??12<% '4B"?' 1@?f 1$ 4 :1 % (1:%6 "?? %31 ' "2=46?' E@ % V1$ H%6<@ %3=' =1745 6"2% 1$' F 2=' '4B"?' 1@?' 1$' 1? 4 3 1H%63 1@?'0 1$' %=?6% E41?' 1H%63' !?F46?$ 1$' 45@1 " ' !?F46?' 1@?' 1$' '?F@$4=' %3%6 &1> <%5' 1$ 66"B"43 1= (&1C <%5' 1$' !66"B"433' %6%?"3=' E@ %' 1$' 4 2@ ' 1= ' 166"5 1$' "5' "713=@' "?? %31 1= ' 4C:=4 ' 1$' "H6"$=' 1= ' 1F% ' 1$' 34 C6 1:' C6 >=6%@ 43%' C:=' (C:=%5 1$' 6" 34 :16 !B4 ' 1@?' 8$ 1B%5@12<" ' !?F46?' 1@?' 1$' 4 4671 ' !B4 ' E@ %' 1$' C647%" % % 6@' 4C:=4 ' 1$' @=%63=' K F% ' E" "475 1$' 9@ 4 3 1= ' 4 C5HC6@' E" "47' '4B"%5 1$' 1 F" ' G% 3%7% ' =%' ?%67% ' 4 ?0 4@" $$' 1$(3=% 1F % 1$ M '% H':=' $16 3=% 3"7% ' H%" :' =1745 =4"F% 1H%63' 9 1F %5' "2=46?' 433=%F%5' 1= ' 1.6?' 1$' 6@ "463= =1745' F"531 ' !?F46?' C:=%=(1$' @;74F6 6"2% &1C <%5' 1H%63' 6"2% 1H%63' 1H%63$' 0% 3%7% ' =% 4@16(1$' 1=' $16 3=% 3"7% H%" :' =%' ?%67% 1$' C3=" ' $16 3=%(3"7% H%" :' =1745' 1 4 ?' 1$' 4 %"= '(=46%5 "?? %31 ' 1$' 4 ?C6 1:' G% 3%7% ' F% ' =% F4 ' !52 "6%' (31H615% =% F4 ' !5 C"6% \ ?6%F' =% F4 ' D !5 C"6%;]' ?6%F' =% F4 ' G% 3%74 ' =46%5 64?5=4F' !5 C"6% 1:%6 6 1$' G% " = 5 16%31 ' 1$' =6"$!> %3= G% 3$' 4Ç6"2% E@ % 1$' 43":4 = B4 (!5 C"6%f' ' 0 W ' 43 ' ' "

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&16 3=% 1C=3@ 1$';"; ""$3/' ' (' '

=%' K ":=3' 1 1C64H % "6 1= ' 6%B16 9 ":=3 %4<>&' 1$?"%' 1 1C64H % R 1C5%' '1$' ?171 5 &"653 16?(17"55"1 %6 1$ 3=% 6%43% %4 % 1$! :4 ?' 4 ?' 1 % 1$ 6%' U4.%53"%5 7153 1C1C$4 % 6"B@' 1 =2" ' 1=C 16?' C33$' 1$(3=% ' ?17% 1$ 6%4 ?' "6 1= ' 4=7%6 6' E" "47' E" "475 "6 1H%63 1331 ' 9 ":=3$4 ?;(' $"461 %33$ "6 !B ' 1@?' "6 1= ' 1 F=@' "6 1:%6 153@ % "6 E" "47' G@ %' "6 "2=46?' "?? %31 ' "6 =1745 G615B% 16 461$ %33$ "6 1H%63 F% ' .6 "1:%6 C %531 ' "6 1= ' 6% 2=46?' (9 ":=3$(1 1 % (1:%6 E ="3 %@' 1?% ' =1745 4 C5HC6@' 1 1."% ' =1745 E ="3 %@' E" "47' 4 7%6 =1745 463%6 1:%6 6"2% =1745 4 7%6 1H%63 (4B"%5 " "47 (1.6?' 1= ' 61$: 31=' "2=46?' 153@ % =1745 !@31 ' !? F46 ' 1@?' 1$ C3=@ ' G%16:%' (1>% 1= ' E@C %' C:=' G6"$$"3=' F% ' 4631=' 5% "16 %"62% % 4 3 >= 745 !B4 5 9% 6"2<% !@31 ' !?F46?' 1@?' 1$' % 3$% H"$ ' =1745 4 % 5261$3% !?F46?f 9" 4531 ' "3=46?' 466@' !?F46?' 16:4 ' E" "4" ' C33%6 !?F46?' 6%6%31 ' ;= 33 4 'E" "475 !? C"6%5 1:%6 153@ % F% ' 4631 ' ! "5 1C :' F" %.? 3 64$"47' G."$$"3=' =1"=45 1 %5(%3%$. E@ % 1:%6 1 %5 1= ' %3" 4 $ =1745 &1C <%5' 1 4"=(1 %5 5% "16 =174 1@?' 1$' $%$% =4" C?' &64 %.5 !?F462"$' =1745 1@?(1:%6 >% 4 3 C<% 1@?' .C "16 =1745 4 C5HC6@' 1= ' Y@ % 1= R C %531 ' 1$' "2<=" '0 1:%6 ' '4B"%5 1= ' 611<%' ' % 6@' 1@?' E" "47' C3 %6 X C:=' %"62%(E" "47' ' =17 ' !?F46?$ G%16:%' E@ % "2=46?' &1C <%5' =1745 1631 ' "2=46?' '4B%5 C7>=6%@ =H7745 E" "47' G 432= %@' !?F46? %3=% ' !?F46?' %F"5 !B4= 1@?' 1= ' &42< 4?' =1745 %F"5 16:4 ' E ="3 %@' G% 3% % ' "(' ' ' (

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=46 %5 16?' 46 C%5 % 1$' E162%53%6 % ?%53(1 % 31' H" ' G642% 3=% ' C<%' 1$' %4C$163 "6' !?F46?' 4 5% ' "6(K!?F46?' 364?" :' "6 =43 %5' 9%7@5 "6 1= ' FH$%@' 461 %33$ "6 1F 4 ?' GF@ %("6' " C7>=6%@' 42<E163=' "6 C7>=6%@' !?F" ' ":=3$ 1= ' E" ?=47' %6.%4 3 4$3 4F% =1745 4 5%"' =1745 16:4 '("2=46?' %F"5 '4B"?' % <" 5 E" $"4""" %6H%63 Q=>C"45 %F"5 &64 2"5 GF@ % 4674?C<% G"HH5 "2=46?' %@5 !?F$6?' 433=$3F%5 E" "47' %@5 C55%@' 4 5% ' "2=46?' 1 :%6 "2=46?' % <" 5 47C% ' !?F@ % !?F46?' 4 5% ' E" "47 433=%3@%5 E" "47' E" ?=47' E" "47' \ (%6H%63]' .C "16 463" ' C331 ' =1745(C331 ' "B%6 (1= ' G%16:% 1F% ' =6"531>=%6 0 >636%@' E43%6 !B4 5 17 45' G"HH1 ' E" "47' FH%6@' %@ 4?' %%6% 1= ' %F% " ' "2=46?' \ %6H%63;]' 1 7 6" % !5 (>?6%E% 433=%E%5 =1">45' 4 5% ' 1$' %=6"2% %6 @' '4E<"""5 =1745 "2% 47%5 GF@ %' E" "436" !?F46?$' !?F46?' 4335% ' .C "16R "2=46?' 47% =1745 1F% ' 1$' 1@36%=% ' G1?F" ' \ %6H%63;]' %I4 ?%6 6133%6 47%5 % ' E" "47' =" ">5 3"?' "2=1 (1$ 3=% 47' 3"? "2=1 ' 1= ' '4="% ' :66" % 1= ' 455%33 =1745 6"2% =1$ 45.' %><" ' 1F 4 ?' C:=%5 433=%F' %@5 =" ">' E" $47' "2=46?' E" "47' 1:%6 1F% ' ">=46?' % <" 5 3=1 @' 1F% ' 1$' 1@?463=' 3=1 @' G3"6@ % 1H%63 "??%6 =1745 "??%6 1:%6 E" "4>5 ' "2=46?' =1745' !?E46?' % <" 5 '1$3C6' 1= ' 1 %5 =4 >% 16 1$' 4 ?4$$%' =%' 4@ "$$$' 1$' 46?""$% $16 ?"% 3"7% H%" :' 64??12<% E % $(%I4 ?%6 C62% ' 1= ' =%%6%5 =1745' E" "475' E" "47' "2=46?$ 64?12< 1F% ' %. "5 1I' E" "47' " %5 4 ?' 62=%6 ?%67% ' E" "47' H13>45 1E % %6<%' E" "47 16:4 ' 1$' (1@?@:1"45 =1745 "2% 1$' 143=' = 745 E" "475 1$(4 "5H% ' =%' 4@ "$$$' 1$' 1"BH6"?:% =%' 1636%B% 1$' % 3=% =%' 1636%B% 1$' 4 "%@' G% 3%7% f(Z' ((' ;' ('

&1H'3=%' 1C 3@' 1$' %6"1 %3=/

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1H%63 E@ %1$ 463=7%"91CG% 3 '4B"? 1@?1$ % F;6 !?F46? F% GF4534?$6" E" "47 F" 1$ '1%.$6"1:
\ 6 %6H%63](1H%63 4 %@1$9%$?4C??F6 6 1= E@ %1$(G463=7%" "1 6 1= %F"51$ %53"1 1:(6; 1=
1@?1$ %$""$3"5 6 1= 16:4 51$ 455% 6 !?F46? 1@?1$ '?F@$4" 6 1 "@ 153@ 6 1= C7>=6%@5
;6 C:= C:=%5 ;6 "B%6 =1745 ;6 G6"$$" = $31H%63$ 1$ $""E: 2= ;6 !?F46? C:=%51$ 1F@ C:=
F% 51$ 4%6H%6 4 ;6 1H%63 K 4C:=4 1$(4%66F F2= ;6 E" "47 C7>=6%@5 ;6 =1745 1@?1$ % ? 6
;6 "2=46? C7>=6%@%5; 1$ % 6=@ ;6 G6"$ 3= 4C:=4 1$ '1%@ 7%@ F@ ;6 1= 6"2% 1$ F@ F%7
;6 4%H 1@? ;6 ! "5 '4B"%5 ;6 1H%63 1@?1$ 61 6 %%5(6"32=46?'1$ F@ :F@6"$;6 1=> ?F46?$

&16 3=% 1C 3@ 1$ 1C 3:17%$@/

=% 1 1C64H% ?6%F %F>163 "6 1= 6"2% "6 =46%5 1@? 461 %33$ "6 E" "47 E" "475 9 ":=3 4 ?
461 %33 $!?F46?(%":=31 461 %33 6"2% '%B%6%CI E" "47 C:= 1$ 43=4B%6 !?F46? 1@?1$ %63= H@?
!?F46? 4C:=4 1= 33=%F%5 &64 2"5 H%6Y 433=%F 16:4 1=> 9@$$"= "2=46? GF% 5 E3?3%6 1>31"$
1= (!?F46?5 1$ 16" :$1"F !?F46? " 33(63=C6 4$":=4 =17 45 12< E4 3%6 6"2% 63=C6 '%B%6%CI "2=46?
("3"1 !B4 G@ % G4H6"% E@ %!"%=46? :%K =" "> !@31 '4 "% E="33" :=47 "2=46? %6H%63 "2=46? 3%?74 =1(451 43=4 "% 4C6"2% C $>= @(9@""?"4 1 =1745 1@? %"62% 1@?!?F46?K 6"2% E" "47(
E" "475 1H%63 1@? 63=C6 E%4B%6 433=4"@(6"2% %6%?"3= 16:4 " 2% 3 %"62% 1F4 ? F% 1$ C 1%3=
C7"%@ E" "475 .C "16 1= =1745 1$ % %:2.5 !?71 ? 1@? "2=46? :647 !5 C"6%5(6$=>=6%@ 1@? @? %@
(@ %6K C7>=6%@(1 %5 !5 C"6%5 "2=46? 451 !?F46? 1 %5 =1745 2<%5 G" H%63 1 %5 (1= G6"$$"3=5 1$
G4 =4B%6% "2=43? 12<% 1:%6 6%B16 "2=46? 433=%F%5 1H%63 :647 $12=F% E@ %6:?=F% G6"$$"3=5
E" "47 1@? 1$ &@ 4 3 "2=46?K 6"2% 1$ GC %@ 4C:=4 '%B%6%CI =1745 G6"$$"3=5 X =174 1?516" 1171
1F% 4 3C% 4@? 1= 4C:=4 1$ @B1??(1= %4? C:= '%6F45 1H%63 9@ 4531 C:= '4B"%5 1$ 1 $6"
1= '4 "% 1$ 3=% 543 % E" "47 !B4 5 1$ 46"?6" "1 !B4 1 :5 1. 4 43="4 (=" :7 !?F46?$ 1= %6H%63
"2=46?(6"2% 1$ %33C5 '4B"? %6%?"3= 1$ 4 F13=% 4 =1745 8 F@ % "2=46? G@ % :%5 1@? $ 12=@4
!?F46? 1F% 1$ % @64< 1= E" 51 !?F46? 6"2% 1$ 36%%3B4@ 1:(!?7C ? 6"2% 16:4 '4B"? 1$K % %:15
&1 ?% F% "2=46? E="33" :=47 1$ 3=% &467% E" "47 %"62% ."> 347% 1= "1@? 1$ '1" :4@ 1= K "??%31
1$ =C62=531 <% !B4 1 %5 1= C:= 1$ 9%66@ =46%5 451 %F"5 E" "475 (1$ BB@ @ ??"3= 91 %63 '4@"%5
1$ 4%5 4C6 47%5 6"2% E" 47 16H%33 433=:F 433=%F%5 1$ E%6 ??C 1= 4C:=4 1$ 9%% Q=1745 %B%7%
G%16:% ":" 5G% 3 1= 15 %6<% G6"$$"3= 1@? %6<% =1745 466@ %$<% 1= E" "475 !5 C"6% (

&16 "% 1C 3@ 1$ %7H61<%/ (X

"2=46? 16? C<%$%@ "521C 3 45=%$"5 " 3=% 9" :?17% 1$ 6%4 ? "6 !6457C5 =" ">5 "6 C:= F% "6
G" >%63 163 "6 1= 46 1F 461 %33$ "6 E" "47 E :4 9 ":=3 =%"6% 4.%53"%5 %6."%4 3 433 4F% !?F46?
E ">5 %2316 =" ">5 55%I @6"2< 63=C6 F% 1F4 ?0 4C:=46= %F"5 E1:4 1$K E"531 %F"5 E1:4 1$
1C531 E". "47 21C6$4 ? E" "47 16?4 3(E43%6 "?? %31 1= F% 1= E" "475 1= 46 1F 5% "16
(0%1$:% 163 (1= 4C:=46 %63=C6 F% .C "16 166"5 1F% G6"$$"3= 4 F<F% G6"$$"3= '4F%5 =1745 1@?
1D G61B%(G :% 1F%33(E" "47 <@67% =46%5 =" ">5 E" "47 E466% 47%5 1@? 1= 461E .C "16 =1745
16H%33 G%1.:% %46% %F"5 1= E" 47 E1:4 .C "16 G6"$$"3=! $"133 % 6@E43%6 G%16:% :=C 3 1= =" ">5
1= %F"5 63=C6 4C:=46 % '4B"? 466@ 1= !?F46?$!6457C5 16H%33 1= F% 1$ %6?4 !5 C"6%5 E" "4
'4B"%5 1$ 47>%3%6 4634 1F% G%16:% 1F% 1$ 4" 6155 433=%F 1F% 1= 16?4 E" "47 &116? 5% "16
E" "47 &116? .C "16 F% &16? G%16:% 1 %5 1$ 64F?@ GF@ 6"% 4C:=4 G%16:% 466"5 1= F% 1$ "$%5<% @
G%16:% 1@? 47%5 4C:=46 % "2% ?475 1:%6 ?475 =1745 1@?(1$ % >%?F"5$ 1= =" ? =1 45 1 %5
1= E :4 ?H%63 E" "475 %F"5 433="45 16"2% 16:4 4C6"2% 166"5 =%1>=" C5 1 %5 3:>=%3" 166"5
G%16:% %F"5 4 ? 1= E: @G% 3%7% (=% 4@16 1$ %7H61<% $16 3=% 3"7% H%" :& 64 2"5 1:%65 " 4 ?5
'4 B%65 1= G1C62@ %I4 ?%6 &116? ?%67% =% 4@16 1$ % H@ $16 3=% 3"7% H%" : % 6@E" "475(. %B%6%""I(4" 71=? 47%5 H@? ?%67% f (

(' &16 3=% 1F % 4 ? 1> 3@ 1$ 4B%6$16? E%53 (

.% 4@16 $? ?%67% 4 ? 3=% 1F" % %6<% $16 3=% 3"7% H :f

&16 ?"% 1C 3@ 1$ 4? f (

"6 1= 16:4 "6 34 ?"5= 46531 461 %33$ "6 !?F46? 46%@ $:=3 1$ 3=% 43=("6K 1F 4 ? GF@ %
"6 !?BV46? E" =4645 "6 (421 =" ? 9 ":=3$ >H%63 46%@ E" "47 &1F %6 =1745 E" "475 1= E4 2133
1= %$$%6@%5 =1745 %F"Y 1$ 46>31 !?F46? %F"5 1$ 4 1C:=3@ 4674?C<% GF@ "% " 4"=C% 1F%
=1745 46%@ " A31 1F% % 6@ 6?H463 !?F46? 6"2% =1745 4C:=4 !?F46? 1F463= E" "47 6?H%63
1H%63 3 .6 1= &1F %6 &%=%63 C2@ 47%5 1@? =46%5 1@? 1= E45=47 E" <"7 6%F53%6 %6%7"4=
1F% !B4 1F% " = 'B" 4 !5 C"$%5 =1745 1F163= %F"5 1@?(=1745 %F"5 1$ 4 :F"3% "2=145
%6@?"3= =1745 '4B"5 $ 7 3@33%3 1= '4B.5 1$ 1%?: 4%521 !B4 4C:=4 E"$"4" 1@? !?F46? 46%@
!5 C"6%5(%7C% 1.?' ?6%F K'4B"5 E"43%6 4C:=4 ?"%7"4= 9%33%H@ E" "47 4@%6 %6H%63 E%531
1@?(E%531 ?3%6^ "H=46?$ 145 3%>=% 5 % 6@ C =1745(1F% !?F46? =" ">5 G6"$$"3= 4" % E43%6
6"2%(1= E="33 %@ G% 3%7% =% 4@$"$$% 4 ? 67% 1$ %F 4? 16 $16(3=% 3"7% H%" :(1H%63

. 1 . GD? #&' N 6 $ ' '7 A

6"2% !5 """6% %216?%6 1= ' '4B"%5 1$ 61 42% C:=(' 3%>=% 5 !5 C"6%5 ' C:=' %F"5 1$ % ?F4 ' ":='
=%6"$$% 47C% ' 1 74 ' %6H%6 E%531 ' "1@?' E%531 ' 1= ' E 45947' % 6@ C ' G6"$$"3=' 4" % '4B"?' 1F% '
1= ' 3%>=% 5(1 45 3%>=% 5 =" ">' 4@ 16 =1745 F% ' 47%5 '1 % C:=' 433=%F%5 1:%6 C5 % ' 1= '
46<% ' 1= (E43E 5 1$ H%$%?1F' =1745 61H%63 3%>=% ' 61H%63 E43%6 G6"$$"3=' \ =1745 G6 !3=' 4B"?
'4B"%5 % 6@ E" 3%6 C:=' !B4 5 ' =1745 6"2% G% 3%7% ' 1H%63 E" "475 'G% 3%74 ' % 6@ 34C:=47' (
G% 3%74 '

KE="2=' 54"? ?7"55"1 %65 51% 45 ' 4$16%5 ? 17" 43%?4 ?' 4>>1" 3%?' 5=4 ' " ' 3=% 6%5>%G"B% 1C 3@%5 "33@%5' --
C661C:=5 '"B"5"1 5 1F %5 4 ?' 42%5 $16 F="2=' 3=%@ $2' 4>>1" 3%?' 17"55"1 %65 6%5>%G"B% @' 7%%3% 31:%3=%6 433 (
3=% 7153 C5C4 ' 4 3" 2?71 ' 42% 1$ %%3%" :' F"3=" ' ' %42= 1$ 3=% 54"?' 1C 3@%5 ' "33@%5 C661C:=5 \ 1F %5 4 ? 5'3N3'
'"B"5"1 5;]' 4 ?' 42%5 6%5>%G"B% @' C>1 ' 3=% &"$3%% 3=' ?4@' 1$ &%H6C46@' F="2=' 5=4 ' H%' " ' 3=% @%46% 1$ 1C6 16?' 1 - N -f
% 3=1C54 ?(5"I' =C ?6%?' " %3@ 4 ?' 3F1' 4 ?' 3=%;' 54"?' ?7"55"1 %65 16 51% 74 @ 1$ 3=%7' 45 5=4 ' H%X 5% 3 433
' 3=% &"653 G% %64 "(% 3%""":' 16 3=% 74.16 >463% 1$ 3=%7' 74@ H@ 3=%"6% 1 5% 3$ 4 ? :$%% 7% 3$ '?"B"?% 45F%
3=%75% B%5 45 13=%6 3=% 17"55"1 %65 13 3=% '(>5% 3 $16 3=% !I% C2U ' 1$ 3="5' G' " 31' C ?6%? ' 43=%5 ('
E4>% 34<%5^' 4>%5 E46?$' 1BB %5 4 ?' 13=%6 42%5 F"3=" ' 3=%"6% "7"33$' >6"B" %?:%?' 16 13 >6"B" %?:%?' " ' 5C2='?'B'5'1 ' 13
;5C2=' 74 %6' 4 ?' $167% 45 31' 3=%7' 5=4 ' 5 %7% %I>%?'% 3 K /8 %B%63=%% 5% 13 3=%6%H@ 31' 6%5364" % 3=% 54"?' $.1 :" @ '
17"55"1 %65 $317'4G" :' 45 17"541 %65 "' 4 @ 13=%6 >463%'1" 3 [Y . 3@' 16 42% $1"' F="2=' 3=%@ 46% 17" 43%? f' 13=%6>463 1$3=%
? 5=4 ' ?"6%G' 3=%"6% 5%B%64 ' 16 .1@ 3 6%2%>3 16 6%2 > $ 31 ' 5C2=; =4H"33 73$ ":='1 534H %5 %33@'
1 534H %5 4@ "$$$' 4 ?' 13=%6 '"<% $$"2%65 4 ?' " " 3%$5 4" ' 5C2=' 17H%6 1$(' 3=%7' 45 3$"%@ X ' 3=%"6% 6%2%>35 31'
'"5 3(%21 5 5=4 ' 3=" <% 7153 21 B% "% 3 6% C"6%" :'3=%7' D 4>>%46% H%$16% 3=% 54".' 17"55"1 G5 433 5""2=' 42%
4 ?' .. % 8 13 %Q2%%?%"=:' % %' '4@%5' 45 3=%@' .=4 ' 4>>1$""3% ".?' 433 5C2=' 3=%"6% >>%464 2%5' 3=% 54"?' 4>>%46f' (
?7"55"1 %65 5=3" ' % @' $%4?%' 16 ' 24C5% 31' H%' 6%4?' C 31' 3=4 ' 3=% 43%5 ' 4 ?' 55%55% 7%$"35 " ' 3="5 G'
7% 21 %?' 4 ?' 451% 1>% @' ?%2 46% 3=% %$$%G' 1$ 3=$%"6% 2=46:%' 31' 3=$%7' 4 ?' =1F' 4 ?' " ' F=43 74 %6 3=%@' 1C:=3 2$%6:%3=%7'
4$" 5=1C ?' 74<% 3=>"$%(%63"$"243%5 4 ?' =1F' 3=%@' 1C:=3 31' >612%%?%" " ' 3=% %I% 2? 1$ 3="5 G' 42216?" :' 3%6 =é 2c63$$"2 Y U2'
43%5 4$16%5W?' ?' "$ 4 .6 ":=' 1 534H% ' %33@' 1 534H %5 4@$"$$"$ =4H"34 3$' 16 '13=%6 $$"2%65 16 =U 53%65'
' 31' F=1" :' 4 @' 6%2%> H6 6% %>3 '5=4 H% ?"6 G%?' 5=4 ' 4H5% 3 3=% "5%" B%5 F"3=1C3 4F$C ' !I2C5% 31' H% 74?% 1C3'
H@' 3=% 43=%5 1$' F1' 26%?"H"V' E"3 %55%5' 8F="2= ' 43=%5 3=% 1">"55"1$3%65 16 4 .6 F1' 1$' 3=%7' 46% =%6%H@'
"7>1F%6%?' 31 '4?7" "53%6 ' 16 .$'4 ' %651 ' 4>>%46%" :' 5=4 ' 6%$C5% 31' 5%6B% 3= ' %B%6@' 5>2=' %651=' 5=% 74<%" :' 5C2=' %651 5
?%$4C 3% 6 6%$C5% :' 1' (5 %"'5=4 ' $16 %B%6@' 3"7% 1$' 5C2=' ?%$4C 3% 16 6 $C54 ' 16%"3%'4 ?' 15% " 31' =%'61'>% ?3@$'
4.%53"%5("2=' 45 3=% ?7"55"1 %65 16 51% 74 @ 45 5=4 ' H% >6%5% 3 16 3=% 74.16 >463% 1$ 3=%7' \H6" :'
5% 3]' 5=4 ' 3=" ?' $"3$ $ "' %I2%%?%<":' 3=% 5C7%(1$ &"B% 1C ?$ 16 %55% 3=4 ' &163@' =" " :$'(?' 433 4 ?' ' '4$3%6 5C2=' (

4$3%6 ' 5""2=' G% %34 ' ' %%3%"?":' 4?4 ?2=46:% :"B% ' 45 4$16%54"?' 3=% 56"?' 17"55"1 %65 5=4 ' 34<% 246% 3=43 E4664 $$' 21 " 55H 65 1' '
H% "55C%?' 63=' 46"?(?"6%G%?' 31' 3F1' 43 3=% %453 1$ 3=% 7153 4H% 4 ?' 5C$$"2"% 3 =4H"34 3$ ' 1$' %42=' 46"5=' ?'6%?' E4'64 35
HF %5=">>' 16 42% 3@"3=" ' 3=% 6%5>%G"B% '"B"5"1 5 3=%6%H@' 4>>1" 3" :' 4 ?3% C"6%" ' 3=%7' 31 H% 55%55165 1$
4 ' 4 ?' %B%6@' 3=% 43%5 4 ?' 'C3"%5 H(@ 3="5 G' "7>15%? 4 ?' 5=4 ' \4 51% 3=%6%"]' 4>>1" 3 ?' >$"I' 4' 2%634" %T ? 3>'>6%$"I'4?4@
'4@' 4 ?' $42% $16 3=% 54"?' 55%55165 31' 4>>%46% H%$16%' 3=%7' 4 ?' 31' H6" :' " ' 3=%"6% %63"$"243%5 " ' F6"3%" :' 1$'< %66"$"?43% ' D
3=% 47%(5 4 ?' "6 47%5 1$(' %B%6@' %651 ' ?F% " :' 4 ?' 6%5"?%" :' F"3=" ' 3=% "7"33$ 1$' 3=15% 42%5 F"3=' F="2=' D
3=%@' 5=4 H%(' 2=46:%?' 4 ?' 1$' 3=% CH534 2% 4 ?' 4 C%5 1$' %B%6@ 1$' 3=%7' " ' $%4?@' 1 %@' 'H3$' G11?$ $"433% $' !5343%' $$"2%5 U2('
16 =%6 >%651 4 ' !5343% F=4351%B%6 8%I %(>3% H%$16%' %I2%>3%?' 16 " ' J="2<% $$"2%5 1$' 7>1@7% $$' 1$ 61$"33'
?' 3=% 54"?' 55%55165' 46% 3=%6%" ' 4 51% 31' H% 6% C"6%?' 4 ?' 46% =%6%H@' "6".1@ %?' 1 452%634" % 4 ?' " $16 7% 55%55165 31" $16 7'
3=%75% B%5 H@' 4 ' 4F$C ' (F4@%5 4 ?' 7%4 %5 3=%@ 2 =' , $R 3=% 36C%' 4 ?' $$ ' @%46% @' B4 C% 1$'4 (4 %65 3F$C @5o1$3=%
%55C4:%5 4 ?$'4 ?' % %7% 35' 4545 % 1$' 4 ' 0C466"%5 @ %5 1$' 14% @ ' 16 %4?' 1>>%6 C ?"2<% 16 $C ' @%46 @334 C%
' 13=%6 @ %5 61 ' E16<%5 43 >6"=:$ 64 ?'(43 E16<%5 1 .%(@ %5 4 ?' E16<%5' 46<%5 =45%5' D E466% 5
E11?$' ?%6 E11?$' 4 ?' 1>>"2%5 4 ?'(4 ' &"5=" :$ @3H%5 % $' C"3"%5 ?' 13=%6 @%46% @ 6H$"33$' 4 ?' 1$'
4 ' %6%?"34 7% 3$' 1$' F=43 43C6% 16 <" ?% (51%B%6 52"3C43% @%" :' 4 ?' H%" :' =4>>% " :' 6 46"5%" :' F"3=" ' 3=% "7"33$ ((
1$' 3=15% 42%5 F"3=' F="2=' 3=%@' 5=4 ' H% 2=46:%?' (?' H%" :' 51%(' 3=%6%1$ 452%634" %?' 3=%@' 43% 31' 455%55% ' 4 ' 4 ?' 4 ?'3'% ' 31' 455%55'
%B%6@' 3=% 54"?' 4 %65 %55C4:%5 4 ?$' %33% 7% 3$' 4 ?' 6% 7"5%5' H%$16% 4>>1" 3%?' 31' H% 2=46:%?' 4$3%6 3=% 43% $ "@646$@(4 C%f
1$' &1 6 =" " :$ $16(R%B%6@' F% 3@' =" " :$' 1$' 3=% $C ' @%46% @' @4 C% 45 3=% (547% 46% %33 $16' 16'. B%63=' 31' H% '
%33 433' 3=% 3"7% 1$' 455%55" :' 3=%6%1$' 4 ' 4$16%54"?' 4 ?' 31 H6" :' E"3=' 3=% 7' 433 3=%' 3"7% 4 ?' > 42% 51% ?5 4$16%54"?' ?31H 7 43' '
>6%$"I%?' $16(' 3=%"6% 4>>%46%4 2 ' 4' (%63"$"243% "33 F6"3%" :' 1$' 3=% 54"?' 55%55%7% 3' 4 ?' 5=4 ' 3 "% ' 4 51% 6%3C6 % 3=% %63"$"243% 1$
4 "%5 1$' F1' 6 716% 4H% 4 ?' 5C$$"2"% 3 %651 5' "B6" :' F"3=" ' 3=% \"7"33$' U]' H1 ?$ 1$' 3=15%(46"5=%5' 55%55 7% 3f
1F %5=">>5 1 534H %F"2<$ 16 42%5 F=%6% 3=%@' 5=4 ' H% 2=46:%4H % 6%5>%G"B% @' 31' H% G1 %8"165 1$' 3=% "1 %@%5' 1 %4165f
31' H% >4"?% 31' =%"6% 4.%53"%5 H@' 3="5 G' $13 F=15% >4@%" :' " ' 31' 3=% %4?' 1$"%G16 7' 74 %6 =%6%4$3%6 $16 F=15% 5 '
7% %?6 5C2='71 %@5 45 3=%@' 5=4 ' H% 2=46:%?' F"3=4 ' 3=% 46"5=' 16 43% F=%6%" ' 3=%@' (46% 51% "7>1@%?' 1 %4 5 >46"5=' '
((5=4 ' (H% 4 5F%6%4H % (?' "$' 4 @' 55%5516 51% 45 4$16%56"?' 4>>1" 3%?' 6 31' H% 4>>1" 3%?' 5=4 ' 33%: %G' 1 ' 6%$C5% 313%4 5F%64H %(
' 31' 5%6B% 16 5=4 ' 74<% ?%$4C 3% 433 3=% 3"7%' 4>>1" 3%?' $16(' ="5 4>>%46%4 2% 8>13 =4B% :' 4 4F$C '%I2C5% 31'(H%
F"3 %55%?' H@' 3=% 43=%5 1$' F1' 26%?"H"V' E"3 %55%5' F="2=' 3=% 54"?' ?7"55"1 %65 16 4 @(FH' 1$' 3=%7' =4B% >1F%6 6% C5 :' 31' 5%6B%
31' 4?7" "53%6' 16 5=4 ' 13'>%6$167% ="5' 'C$@' %B%6@' 5C2=' 55%5516 5=G' $16 %B%6@' 5C2=' %: G% 6%$C54 ' 16 %$4C 3f
?% C3% 16%"3% 4 ?' 15% C 31' =%"6%(4.%53"%5 5C2=' 5C7% 45 3>% 1">" 5"1 %65 16 5>% 74 @' 1$' 3=%7' 45 5=4 ' H%
>6%5% 3 16 3=% 74.16' >463% 1$' 3=%7' 5=4 ' 3=" <% $"33 13 %I2%%?6" :(3=% C7% 1$' F% 3@' 1C ?$'(16 C ?%6 3=%
5C7% 1$' % % ?C ?$'(31' H% %@@%?' H@ #1 36%55% 4 ?' 4% 1$' 3=% $$% ?165'G11?$' 4 ?' =433. $'(" "<% 74 %6
45 H@' 3="5 G' "5 4>>1" 3%?' $16' %B@" :' 3=% 5%B%64 (43%5 ?' 55%55 7% 3$ =%6%" ' 7% "?4 %?J="' 245% 1$' %: %G%
16 6%$C54 ' 1$' 4@7% 3 4 ?' 31' H% 2=46:%?' C>1 ' 3=% 6%5>%G"B% %2%"B%65 G% %64 31:U3=%6' @"3=' 3=% 54"?' 43%5(G %64 '
4""?' ' 55%55%">% 35 ?' %B%6@' 55%5516 51% 45 4$16%54"?' 4>>1" 3%? '16 31' H% 4>>1" 3% 5= ' H%$16% =%' 34<:' C>1 ' '

' 3' ' 1 , ' '"@"5$% 5 1B@C%5 N(; 1 ' - '

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' C3@' 42216?" :' 31' 3=%' ?"6%221 5' 1Y' 3="5' " ' ?' %B%6@' %4?' 1 %?3 6' "5' =%6%H@' 6% C"6%?' 31' 74<%' %4? 1 % 165
4@"""% 3' 1$' F=43' 5=4 ' H%' 51% %B@%?' 16' 6%2%"B%?' C 31' 3=%' %2%"B%6' G% %64 '" 1$' 3=%' 54"?' 1C 3@' "3@' %Y $%6' G% %64 '
16' 42%' C>1 ' 16' H%$16%' 3=%(F% 3"%3=' ?4@' 1$' 462=' 4$16%54"?' 16' F"3=" ' F% 3@' ?4@%5' 4$3%6' ' ?' ' 3=%' 1 6' H%$16%' :13=' '
%2%"B%6 ' G% %64 '" "5(' "<%F"5%' 6% C"6%?' 31' 24 ' C>1 ' 4 ?' =453% ' 3=%' 54"?(%4?' 1 "%"3165' 4 ?' 31' >4@' .1
F=43' =%' 5=4 ' 6%2%"B%' $61 7 3 $3' 54"?' %4?' 1 "%"3165' C 31' 3=%' %2%">3%' 1$' =%"6' 4.%53"%5! I2=% C%6' C>1 ' 16' 731 I2=% C%6' 1
H%$16%' 3=%' &"B%' 4 ?'!3F% 3"%3=' ?4@' 1$' 462=' 4$16%54"?' 16' F"3=" ' F% 3@' ?4@%5' 4$3%6' 31' 3=%' % ?' 3=43'! ' &"653' 462=0 K
4@7% 3' 1$' 3=%' 54"?' 43%5' 4 ?' 55%55%7% 3$' 74@' H@' 3=43' 3"7% H%' $C @' 4 5F%6%?' 4 ?' >4"?' " ' 31' =%"6%' 4.%53"%5
?' 3=%' CH 21 %"3165' 5=4 ' 451%' % @' 3=%' %21 ?' 0C463%6 @' 4@7% 3' 1$' 3=% 54"?' 43%5' 4 ?' 55%55%7% 3$' 2=46:%?' " 7 %'$16' 3=%
45' 4$16%54"?(C>1 ' 16' H%$16%' 3=%' %21 ?'?4@' 1$' C % 3=%' %I3' % 5C%" :' 16' F"3="=' F% 3@' '4@%5' 4$3%6' 4 ?' 5=4 ' 4@7%"Y
4 51%' >4@' 3=%' 5K47%" 31' 3=%' %4?' 1 "%"3165' C>1 ' 16' H%$16%' 3=%' " 3=' ?4@' 1$' C %' 4$16%54"?' 16' F"3="=' F% 3@' '
?4@%5' 4$3%6' ?' 3=%' 54"?' %4?' 1 %" 165' 5=4 ' 74<%' 4@7% 3' 3=%6%1$' 31' 3=%' %2%"B%6' G% %64 '" (1$' 3=%' 54"?' %4?' 1 %$3165' 31'
1C 3@' "3@' 16' 42%' C>1 16' H%$16%' 3=%' "I3%% 3=' ?4@' 1$' C % 4$16%54"?' 16' F"3=" ' F% 3@' ?4@%5' 4$3 6' ?' 3=%' G %64 # F 1 Y34'
54"?' %2%"B%6' G% %64 '" "5 4 51%' 6% C"6%?' 31' 74<%' 4@7% 3' 1$' 4 ' F="2=' =%' 5=4 ' 51%' 6%2%"B%' " 31' =%"6%' 4.%53"%5' >4@' " 31' 3=%' (M
%2%">3%(1$' ! I2=%(C%6' C>1 ' 16' H%$16%' 3=%' &1C6' 4 ?' 3F% 3"%3=' ?4@' 1$' C % 4$16%54"?' 1>' F"3="=' F% 3@' ?4@%5' 4$3%6'
31' 3=%' % ?' $=43' 3=%' 5%21 ?' >4@7% 3' 1$' 3=%' 54"?' 43%5' ?' 55%55%7% 3$' 5 % 2=46:%?' 45' 4$16%54"?' 74@' H@' 3=43'
3"7% H%' $C @' 4 5F%6%?' 4 ?' >4"?' "=' 31' =%"6%' 4.%53"%5 ?K' 3=%' 54"?' CH 21 $:"$3165' 46%' 451%'6% C"6%?' 4 ?' B ?)
% .1@ %?' 31' %B@' > % 13=%6' 0C463%6 @' 4@7% 3 1$' 3=% 54"?(43%5' 4 ?' 5%55 (7% 3$' 2=46:%?' 45' 4$16%54"?' C>1 ' 16' 4@7%"'3(' D'
H%$16%' 3=%' &1C63=' ?4@' 1$' %>3%7H%6' 3=%' ' %I3' % 5C%" :' 4 ?' 5=4 ' .51%' >4@' 3=%(547% C 31' 3=%' 54"?' 6%5>%' "B%'
%4?' 1 %$3165' (1 ' 16' H%$ 6% 3=%' E% B%3=' ?4@('1$' %>3% H%" 4$ 6%54"?' 16' F"3=" F% 3@' ?4@%5 4$3%6' ?' 3=%' 54"?'
%4?' 1 %? 165' 46%' 31' =453% ' 3=%' 54"?' CH 21 %$316' 4 ?' " 245%' 3=%' 547% 5=4 ' 13' (H% 21 %$3%?' HV' 6%451 ' D 1$' 21 % 164' 4 ?' 74@'
D =%: %?' 16' $4" C6%' 1$' ' C3@' " ' (3=%' 54"?' CH 21 %? 165' 3=%' %4?' 1 %$3165' 46%' 31' >612%%? ' 4:4" 53' 3=%7' H@' ' "536%55%
" ' "<%' 74' %6' 4 ?' H@' "<%' K" 4664 3' 454$16%54"?' ?' %B%6@' %4? 1 % >6' "5' =%6%H@' 6% C"6%?' 31' 74<%' >4@7% 3' %4?' 1 %$316' 31'
1 $' F=43' 5=4 ' H%' 51% %B@%?' 16' 6%2%"B%?' C 31' 3=%' %2%"B%6' G% %64 '" 1$' 3=%' 4"?' 1C 3@' "3@' 16' 42%' ">1 ' 16'
H%$16%' 3=%' F% 3"%3=' ?4@' 1$' %>3%7H%6' 4$16%54"?' 16' F"3=" ' F% 3@' ?4@%5' 4$3%6' ?' 3=%' (%2%"B%6' % %64 ' ' %2%"B%6' G% (%64 ' D
"<%F"5%' 6% C"6% ' .1"324 ' $">1 ' 4 ?' =453% ' 3=%' 54"?' %4?' 1 %$3165' 4 ?' 31' >4@' F=43' =%' 5=4 ' 6%2%"B%' $61 7' 3=%' D
5??' %4?' 1=%$ 165' " $1' 3=%' %2%">3%' 1$' =%"6%' 4.%53"%5 ! I2=%2.C%6' C>1 ' 16' H%$16%'3=%' " % 4 ?' 3F% 3"%3=' ?4@' " 31' ! I2=% C%6'
25$' %>3%33"H%6' 4$336%' ?' 16' F"3=" ' F% 3@' ?4@%5' 4$3%6(31' 3=%' % ?' (3=43' 3=%' ="6?' 4@7% 3' 1$' 3=%' 54"?' 43%5' 4 ?'
55%55%7% $ 74@ H 3' 3=43' 3"63"% H%' $C @' 4 5F%6%?' 4 ?' >4"?' " 31' =%"6%' 4.%53"%5' ?' 3=%' CH 21 % 1$5' 5=4 ' 451%
%B@' 1 % 13!%6 0C463%6 @' 4@ % 3' 1$' 3=%' 54"?' 43%5' 4 ?' 55%55 7%>3$' 2=46:%?' 45' 4$16%54"?' C>1 ' 16' H%$16%' 3=%
%21 ?' ?4@' 1$' '%2%7H%6' 3=%' ' %I3' % 5C%" :' 16' F"3=" ' F% 3@' ?4@%5' 4$3%3(4 ?' 5=4$3' 451%' >4@' 3=%' 546=%' C 31
3=%' 54"?' %4?' 1 %?3165' C>1 ' :46' H%$16%' 3=%' " 3=' ?4@' '1$' '%2%7H%6' 4$16%54"?' 16' F"3=" ' F% 3@' ?4@%5' 4$3%6' ?
3=%' 54"?' %4?' 13 %? 165' 5=4 ' 74<%' 4@7% 3' 3=%6%1$' 31' 3=%' %2%"B%6' G% %64 '" 1$' 3=%' 54"?' 1C 3@' "3@' 16' 42%' ' 1 %$3@65' 31'
C>1 ' 1 ' H%$16%' 3=%' "<3 % 3=' ?4@' 1$' '%2%7H%6' 4$16%54"?' 16' F"3=" ' F% 3@' ?4@%5' 4$3%6' ?' 3=%' 54"?' %2%"B%6' G% %64 ' F=1' Hf 31' (
G% %64 '" "5 4 51%' 6% C"6%?' 31' 74<%' 4@7% 3' 1$' 4 ' F="2=' =%' 5=4 ' 51%' 6%2%"B%' " 31' =%"6%' 4.%53"%5 (%2%">3%' > @"131' 36=% C%6(
(1$' ! I2=% C%6' C>1 ' 16' H%$16%' 3=%' &"B%' 4 ?'3F% 3"%3=' ?4@' 1$' '%2%7H%6' 4$16%54"?' 16' F"3=" ' F% 3@'(?4@%5' 4$3%6' 31'
3=%' % ?' 3=43' 3=%' &1C63=(?' 453' 0C463%6 @' 4@7% 3' 1$' 3=%' 54"?' 43%5' 4 ?' 55%557% 3 ' 51% 2=46:%?' 45' 4$ 6%54"?'
(74@' H@' 3=43' 3"7% H%' $C @' 4 5F%6%?' 4 ?' >4"?' " ' 31' =%"6%' 4.%53"%5' ?' 4 ' 17"55"1 %65' (1 %$3165' 4 ?' %2%"B%65' ' %651 5' '
46%' =%6%H@' 6% C"6%?' 4 ?' % .1@ %?' 31' 4>> @' 3=%75% B%5' F"3=' 4 ' ?" ":% 2%' 31' 3=%' 7153' 5>%%?@' 4 ?' %$$%? C4 ' ! I%2C21 ' ! I%' $1 ' 1$' 3=%' 5=4
1$' 3=%"6% 5%B%64 ' 4 ?' 6%5>%?3"B%' '>3@%5' 4 ?' 31' C5%' 3=%"6%' C3 7153' % ?%4B1C65' 3=43' 4 ' ! 5343%5' =%6%" ' 2=46:%?' 74@(
% C4 @' >4@ 3=%'(43%5' 4 ?' 55%55 7% 3' 42216?" :' 31' 3=%' ?"6%221 5' 1$' 3="5' + ' 3=43' 1% =%"6%' 4.%53"%5 %6B"2%'
=%6%" ' "3"4@' 13' H%' ?% 4@%?' 16' =" ?6%?' 3=61C:=' 4 @' 1$' 3=%"6%' F" $C ' %: %$3' 16' ?%$4C 3' fL' ' '' (
'' "3' "5' $C63=%6' % 4$3%?' 4 ?' ?%2 46%?' H@' 3=%' C3=16"3@' 4$16%54"?' =43' 3=%' 1 %@%5' 6%2%"B%?' H@' 3=%' 42 4'
C= %? %0165' F"3=" ' 3=%"6%' 6%5>%O"B%' ' "B"5"1 5' 16' C ?6%?$ 5=4 ' $61 7' 3"7% 31' 3"7% H%' ?C% @' >4"?' 31' 3=%' %4?' %2%">3 4' ;'
1 %? 165' F=15%' 6%2%">3%' 5=4 ' H% 4' 5C$$"2"% 3' ?"52=46:%' C 31' %B%6@' 5C2=' CH 71 %$316' (F="2=' CH 21 %$316' 0' $16'
:43=%6" :' 3=%' 54"?' >463"2C 46' C7%5' 5=4 ' 6%34" % " ' ="5 =4 ?$' $16' %B%6@' F% 3@' =" " :$' H@' ="7' 51% >4"?' =6%%' CH21 <416' 31'
% 2%' 45' 4' 6% #B46?' $16' ="5 >4" %5' 4 ?' 5%6B"2%' ?(3=%' %4?' 1 %$3165' 5=4 ' 42216?" : @' >4@' 1B%6' 3=%' 4"?'
71 %@%5' C71' 3=% %2%"B%6' G% %64 '" 1$' %42=' 1C 3@' "3@' 16' 42%' 6%5>%$3"B% @ " ' 6 4 %6 4$16%54"?' F="2=' %4?' %4?' 1 % 16' 31'
1 %$316' 6 1 % 165' 5$34 3' H% 17" 43%?' 4 ?' 4>>1" 3%?' H@' 3=%' %2%"B%6' G% %64 '" 1$' 3=%' 6%5f %_'.B% 1C 3@%5>4@31 4 ? H (
F="2=' 54"?' %2%"B%6' G%=%64 ' 5=4 ' H%' 4 5E%6%4H % $16' 4 ' 5C2=' 5C7%5' 1$' 71 %@' 45' 5=4 ' H%' H@' ="7' ?6' 3=%7' .2%$B%6(
21 %, %?' 16' 6%2%"B%?' 4 ?' 3=43' 1% CH 21 % 3%6' 5=4 ' H%' " $162%?' 31' 364 % ' 4H1B% 3=% 5>42%' 1$' 3% % " " %5(' $16' 3=%' "'H21 %_16'
>4@7%6"'3' 1$' 3=%' "? 71 %@%5' 3=43' 5=4 ' H%' H@' ="7' 21 % %?' 16' 6%2%"B%?' ?' 3=%' 54"?' %2%"B%6' G% %64 $ 42 C"334 2% '
5=4 ' H%' 4' 5C$$"2"% 3' ?"52=46:%' C 31' %B%6@' 5C2=' %4?' 1 %$3 6' 4 ?' 3=%' %2%"B%6' G% %64 '" 5=4 ' >4@3=%' F=1 ' C7%' 2 C'334 2%' 4
H@' ="7' 6%2%"B%?'(" 31' 3=%' %2%">3%' 1$' =%$3%' 4.%53"%5 ! I2=% C%6' " ' 5C2=' 74' %6' 4 ?' 433' 4 ?' H%$16%' 5C2=' ?4@%5' 4 ?'
3"7%5' 45' 46%' =%6%" ' H%$16%' "7"33%?' ?' (5=4 ' =4B%' 4 ' 4 1F4 2%' 1$ 3E1' >% 2%' " ' 3=%' 1C ?R$16' 4 ' 71 %@%5' F="2=' ! I2=% C%6'
5=4 ' H%' H@' ="7' >4"?' " 31' 3=%' %2%">3%' 1$' 3=%' ! I2=% C%6' C>1 ' 6' H%$16%' 3=%' 3"7%5' >$"I%?' " ' 3="5' $3' f(%2% 6 G% 64'
' ' $16' 3=%' 246%$ ' F6"3%" :' 4 ?' 364' 526"H%" :' 3=%' 54"?' E 46$4' 3$' %63"$'243%5' ! 536%43$ 04 ?' ' C> "243%5" ' ?C% 3' 7% G1 7 7"5" "%65'
"3' "5' $C63=%6' % 4$3:?' =43' 3=%' 17"55"1 %65' %6<$' F=1' 5=$$"' 6%5>%$ "B% @ >%6$16 7% 3=%' 547% 5=4 ' H@' E 4664 3' %6<5' 31' =4B%'
C ?%6' F1' 16' 716%' 1$' 3=%' 17"55"1 %65' =4 ?$' =4B%' ?' 6%2%"B%' $61 7' 3=%' 6%5>%?3"B%' %2%"B%65' G% %64 '" 1 %'(' .
% @' " ' 3=%' 1C ?' 1$' 4$3' 5C2=' 71 %@%5' 45' =% (16' 3=%@' 5=4 ' =4B%' 6%2%"B%?' H@' %63C%' 1$' 5C2=' E 4664 3$' 4 ?' RE4664C35' UD(
! 536%43%5' F=1' 46%' =%6%H@' 4>>1" 3%?' 4 ?' 4 1F%?' 31' >4@'(3=%' 547% 422216?" : @' ?' "$' @ >%651 ' 5=4 ' %: $%$3
' 6%$C5%' 31' >4@' 3=%' 5%B%64 ' 43%5' 4 ?' 55%55 7% 3$' F=%6%F"3=' =%' "5' =46:%?' H@' 3=" 5 ?' $16' ' " ' 6%5>%?3' 0
="5' %651 4 @' ! 5343%' $$"2%5' 16' 7>:@7% 3$' 4 ?' F="2=' =%' 1C:=3' 31' >4@' 6' "$' 3=%' 1C ?' 43%' 16' 4 @' 4@7% 3' 13>4"?' R' '
3=%6%1$' 51%' 45' 4$16%54"?' 2=46:%?' C>1 ' 4 @' 4 %65' %55C4:%5' 4 ?5' % %7% 3$' %6% "34 "% 3$' 4 ?' 6%7"55%5' 5=4
H%' %: %$ 6%?' 16' 6%$C5%?' 31' H%' >4"?' 3=%' C>1 ' ?%74 ?' "334?% H@' 3=%' $$"2%6' 16' 1 %?16' $ 3=%' > 42%' +$ 1' ' ?'5364' '.' D

3=Xf >6%2%>3% 16' !536%43% 31' ="7' ?% "B%6%?' H@' 3=% 5 ?' 216""55"1 %65' "3' ;5=4 ' 4 ?' 74@' H% 4F$C ' 31' 4 ?' $16' 5C2=' $$"2%6 ' 16' > %$ 16' 4 ?' =%(4 ?' 3=%@' "5 4 ?' 46% =%6%H@ 6% C"6%?' $16' 1 >4@7% 3' 3=%61$' 31' ?"536%@ % 3=% >%651 ' 16' >%651 5 51% 6%$C5%" :' 16' %: %U" :' 31' >4@' H@ ' ="5 16' 3=%"6% G11?$' 16' GH433% "5 16' 31' ?"5364" % C>1 ' 3=% %55C4:%5' 4 ?5' % %7% 35(4 ?(' 6%7"5 >5 51% '2=46:%?' 4 ?' 3=% G11?$' 4 ? =433% 5' 3=% ' 4 ?' 3=%6%' $1C ?' 4 ?' '

6."?' 31' <%%>' 3=0' ' "536%.5' &1C6' '4 543' F %6 5' =46:%' f

3=% ' 31' H%' 4>>64"5%?' 4??

51?'4 ? B%6> C5' 6%5316%?(

6%4<" :' 1>% ' 1C5%5' =%535'U2(

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2: " :' 31' 55"534 2% 1 534H %5' U2('

3=% (' "536%55%(51% 34<% ' 31' <%%>% H@' 3=% 5>42% 1$' 1C6' ?4@%5' 433' 3=% 153$'4 ?X =46:%5' 1$' 3=% F %6' 3=%6%1$' (' ?' "$' 3=% 54"?' F %6' ?1% 13' >4@' 3=% 5C" % 1$3' 71 %@' DC% H@' 3="5 ?"' F"3=" ' 3=% 54"?' &1C6' ?4@%5' 3=% ' 3=% 54"?' ' "536%55% 31' H%' 4>>64"5%?' H@' F1' 16' =6%% ,' 3=% =4H"34 3$' F=%6% 3=% 54"?' ' "536%55% "5 34<% ' 4 ?' 31' H% 51?H@' 3=% 54"?' $$"2%6' 16' 1 % 16' $16' 3=% >4@7% 3' 1$' 3=% 54"?' 71 %@' 4 ?' 3=% 1B%6> C5' 217>" :' H@' 3=% 54"?' '

4% "$' 4 @' H% 1B%6' 4 ?' 4H1B% 3=% =46:%5 1$' 34<%">:' = ?' <%%>%" :' 3=% ' "536%55% 31' H%' "7%?"43% @ 6%5316%?' 31' 3=%

(F %6' 3=%6%1$(?(716%1B%6' "3 5=4 ' H% 4F$C ' 31' H6%4<% 1>% ' " ' 3=% '4@(' 3"7% 4 @ 1C5% 4 ?' C>1 ' E4664 3'

C ?%6' 3=% 4 ?$' 4 ?' %4%5 1$' 4 @ F1' 16' 7?6% 1$' 3=% 54"?' 17"551 %65' 4 @ =%53' "fC <% 16' 1l' 16' 13=%6'

3=" :$ F=%6% 5C2=' G11?$' 6% 24 " :' 31' 3=%"6% 455"534 2% 3=% 1 534H %5' @3=%" :' f%"" c6' %4?H161 :=5' F"3="" '

3=% 1C 3@%5' 1F %5' 16' 42%5' F=%6% 4 @ 6%$C54 ("%: %$/ 16' 6%5"534 2% 5=4 ' H% 74?%((F="2=' 4"?' $$"2%65' 46%

' =%6%H@' 6% C"6%?' 31' H% 4"?%" :' 4 ? 455"53" :' " ' 3=% 6%7"55%5' f'

Q(46% 35'4 ?' GC46?"4 5'31' >4@' %3%5' "64>?5%?' 1 ' $4 35f

Z

2 o' H%' "3' $C63=%6' ! 4$%?' 3=% C3=16"3@' 4$16%57?' =43' F=%6%' 4 @' %651 ' 16' %651 5' 2=46:%4H % F"3=' 4 @ 43%5' 16' 55%55%7> 3$' H@' 3="5 ?" "64>1>?' 5=4 ' H%' C ?%6' 3=%' j %' 1$' % < ?' 3F% 3@' @%46%5" " ' B%6@' 5C =' 245% 3=% 46% 3$' GC46?"4 5' 16' C3165' 1$' 5C2=' $% 3$' 6%5>%$3"@% @' C>1 ' ?%$4C 3% 1$' >4@7% 3' H@' 5C2=' $4 3$' 5=4 ' H%

X 4 ?C>1 ' %: %$3 ' U2('31' H% >612%%?%?' 4:4" 53' 45' 13=%6' ' %$4C 3%65(

4 ?' 46% =%6%H@' 74?%' @4H.% 31' 4 ?(2=46:%4H %; "3=' 3 % 46% 3$' F="2=' 5C2=' $4 3$' 1C:=3'31' =4B%' 74?%(? "$' 5C2=' 46% 3$' GC46?"4 5' 16' C3165' 5=4 ' %: %?%' 16' 6% 56$' 31' >4@' 45' 4$16%54"?' "3' 5$"4 (4 ?' 74@' H%' 4B C ' 31 >612%%?% 4:4" 53' 3=%7' " ' "<% 74 %6' 45' 4:4" 53' 4 @' 13=%6' %651 ' 16' %651 5' 74<%" :' ?%$4C 3% 1$' >4@7% 3' 45' =%6%"

C75'>7?' 4 1F%?' C>1 ' 3=%"6' 221C 35(% 4 35'31' > @ ' 43%5';' 4 ?' 3> '?%?C$3L1C3'1$' % 3(

H%$16% 4>>1" 3%?(1"?' ' 46% 3$' GC46?"4 5' 16' C3165' 74<%" :' >4@7% 3' 45' 4$16%54"?' 5=4 ' H%' 4 1F%?' 4 ' 4 ? %B%6@' 3=%(5C7%5' 51%; >4"?' $16;5C2=' $4 3$' C>1 ' ="5' 4 ?' 3=%"6% 4221C 3$(?' 3=%' 5%@%64 ' 4 ?'(6%5>%U"B% % 4 3$' 1$ 4 (4 ?' %B%6@' 3=% 4 %65' %55C4:%5' 4 ?$' % %7% 35' %6%?"347% 35' 4 ?' 6%7"55%5' F="2=' H@' B%63C%' 1$' 3="5 $3 5=4 ' H%(2=46:%4H % F"3=' 4 @ 1C ?' 43%5' 45' 4$16%54"?' 46% =%6%H@' 6% C"6%?' 4 ?' 4C3 6>6" `%"$' ;31(> ' 5C2=' 5C7% 16' 5C7%' 1$' 71 %@' 45' 5=4 ' H% 643%?' C>1 ' 5C2=' 4 %65' %55C4:%5' 4 ?$' % %7% 3$' %6% 346 % 3$' 3" ?' 6%7"55%5 4 ?' 31' ?%?C$3' 143' 1$(3=%"6% % 3$' 51%' 7C2=' 1$' 3=%' .4"?' 43%5' 45' " ' 6%5>%?3' 1$' 3=% 54"?' % 3$' >4@4H % ' $16' 5C2=

4 ?1 531'4 1F' 5C2=' ' %?C$3"1 5(

4 %65' %55C4:%5' 4 ?$' % %7% 3$' %6%?"347% 3$' 1$' 6%7"55%5' 3=% 4 ?16?' 5=1C ?' 4 ?' 1C "3' 31' H%46%(? 4 ' 4 ?16?$' H13=' 7%?"43% 4 ?' "" %?"43% 842216?" :' 31' 3=%"6% 6%5>%$3"B% 3%6%53$' 46% =%6%H ' 6% C"6%?' ;31' 4 1F% 5C2=' ?%??221 5' 4 ?' >4@7% 35' C>1 ' 6%2%">3% 1$' 3=% 6%5"?C% 1$' 3=% % 3$' ?' %B%6@' % 4 3' >4@" : 3=% 54"? 55 55%7% 35(1$' 3=% 1C ?' 43%5' 5=4 ' H% 4 ?' "5 =%6%H@' 42 C"33%?' 4 ?' ?"52=46:%' $16' 51% 7C2=' 71 %@' 45' 3=% 0

' 54"?' 55%55%7%" 3' 5=4 ' 471C 3' C 31' 45' "$' 3=% 547% =4?' H%% % 4$3C4 @' >4"?' C 31' 5C2=' %651 ' ,6' %6 1 5' C 31

Q(%651 5'31' H% 643%?' $16' $"2%5'43' 42>Y' F=%6% %I%2C3%?'H 4 ?'$16' %651 4 ' !5343%5' F=%6% ' 6%5"?% 3(

F=17% ="5 % 3' 5=1C ?' =4B% H%% % ?C% 4 ?' >4@4H % f'

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2 o' "3' "5' =%6%H@ ! 4$%?' 4 ?' '%2 46%?' =43' "' %45% 4 @' 1 361B%65 % 46"5%' 21 2%6 %" :' 3=%' 54"?' 55%55 7% 3' 16' 3=%' ?"B"?%" :' OO 1' 16(' >4@ 7% 3' (3=%6%1$' F="2=' (21 2%6 %5' 4 @ 3=% 17"55"1 %35' H@(3="5 0# 4>>1" 3%?' 3=43' 3=% 17"55"1 %65' 51% 21 2%6 %?' "' 3=% 54"?' 1 361B%65">' 5=4' =4B% 1% B1@2% HC3' 5=4' F"3=?64F% 433' 3=% 3"7% 1$(3=%' ?%H43%(1$' 4 @' 5C2=' 1 361B%65 % C 3"' "3' H% ?%3%67" %?' H@' 3=%(6%53' 1$' 3=% 17"55"1 %65f =?'"' ? $%=3% 3=%6%1$' 3=43' 3=% 17"55"1 %65' 3=%' >6%5% 3' 5=4' =4B% >1F%6' % ?' 46% =%6%H@ 6% C"6%?' 31' "7>15% 5C2=' &@ %' 16' &@ %5' 45' 31' 3=%7' 5=4' H%(3=1C:=3' $"33' C>1' 5" 2=' 17"55"1 %"5' 5H% 6%$C5%" :' 31' F"3=?64F% 13 %I2%%?%" :' 3=% C64% 1$' F% 3@' >1C ?$' 4 ?' 31' 24C5% 3=% 547% 3>' H% %B@%?' 4 ?' >4"?' 45' 13=$6' &@ %5' 31' H%' "7>15%?' KH@ B"63C% 1$' 3="5 $3' 46%('31' H% %B@%?' 4 ?' >4"?'(?' 4' 0C%53"1 5' 4 ?' '"$$%6% 2%5' 3=43' 5=4' 4$"5% 31C2=" :' 4 @' 1$'3=% 54"?' 43%5' 4I%5' 55%55%7% 3$' 16' %B@%5' 5=4' H%(=%46?' 4 ?' $@ 4 @' ?%3%67" %?' H@' 3=% 17"55"1 %65' "' 5C2=' 74 %6' 45' H@' 3="5 $3' "5' ?"6%$3%?' C>1' 217>4" 3% 3=%6%1$' 31' 3=%" 74?% H@' 4 @' %651' 16' %651 5' 3=%6%H@ \4:6%"B%?]' F"3=1C3' $C63=%6' 36: H% 1@ C"3%" 3=%' 4F%(' ?' 3=%' 54"?' %2%"B%65' G% %64 @ 5=4 :"B%' 2 C=34 %5' 8:643"5' 31' 3=%' 54"?' %4?' 1 %$3165'($16' 4' 71 %@%5' 1$' 3=%. ' 6%2%"B%?(' ?' 3=%' 54"?' 4"?' 13 %$3165' 5=4' 451% :"B%' 2 C"334 2%5' 8:643"5' 31' 3=% CH 21 %$3165' $16' 4' 5C2=' 71 %@%5' 45' 5=4' H%' >4"?' 3=%7' "' >C65C4 2% H$'$="5' $3(' ?' 3=%' 54"?' CH21 %$3165' 5=4' 74<% 4 ?' ?% "B%6' 31' 3=%' 54"?' %4?' 1 %$3165' 4' >%6$%$3' 2=%?C %' $4"6% @ F6"33%' "' 462=7% 3' C ?%6' 3=%"6% 4 ?$' 4 ?' %4 %5' 5": %?' 4 ?' 4 1F%?' H@' 4 @' F1' 16' 716%' 1$' 3=% 6% 5>%$3"B% 17"541 %65' 1 34" %" :' 3=% 47%5' "6 47%5' 4 ?' 42%5' 1$' H1?%' 1$' %B%6@' %651' F"3=" ' 3=%"6% 6%5>%$3"B% 1 %221 5' 3=43R5=4' 74<% (?%$4C 3% 1$' >4@7% 3' 1$' 4 @' 1$ 3=%' 5 7%5' 3=43' 5=4 ;H%' 643%?' 16' 455%55%?' 1' 5C2=' %651' H@' B"63C%;1$(' 3="5 $3' F=%6%' 1% 5C$$"2"% 3' '"53 %55% "5 31' H% $1C ?' 4 ?' 13' 13=%6F"5% 4 ?' 3=% 5C7% 4 ?' 5C7%5 2=46:%?' 1' %B%6@' 5C2=' %651' 3=% 547% 2=%?C % 31' H% ?% "B%6%?' H@' 3=% %4?' 1 %$316' 32W 3=% %2%"B%6' G% %64 " 1$' 3=% 1C 3@' "3@' 16' 42% 6%5>%$3"B% @(' 31' H% H@' ="7' 6%3C6 %?' " 31' =%"6%R 4.%53"%5' 1C63' 1$' !I2=% C%6' F=%6%C>1' %B%6@' %651' 51% 743%" :' ?%$4C 3% 1$' 4@7% 3' 74@' H% 2=46:%?' H@' 612%55%' 1$' 3=% 54"?' 1C63%' 42216?" :' 31(' 3=% 21C65% 1$' 3=% 1C63%' 1$' !I2=% C%6' " ' 5C2=' 45%5')'

QQ(' 1(6"B" %:%1$' !I%7>3"1 '$61 f CH5"?"%5'U2(' 5=4' %I3% ?' 31' 43%5' :64 3%?'H@'3="5 $3(

2 o' H% "3' $C63=%6' ! 4$3%?' H@' 3=% C3=16"3@' 4$16%54"?' =43' 1% %33%65' 433% 3$(' :.> 3:?' H@' =%"6% 4.%53"%5' 1(6 4 @' 1$' =%"6% 1@4' 61:% "3165' 31' 4 @' %651' 16' %651 5' "3@%5' 161C:=5' 16' 1F %5' 16>1643%' F"3="' 3="5 %4 7% 1$' 4 @' 74 %6' 1$' "H%63"%5' 6"B" %?:%5' 16' !I%7>%1 5' $617' CH5"?"%5 1 $' 4I%5' 55%55%7% 3$' 16' "?$' 5=4' H% 21 53$C%?' 16' 34<%' 31' %I%7>3' 4 @' %651' 16' %651 5' "3@' 42% 161C:..' 16' 1F % 16>1643%' 16' 4 @' 1$' 3=% ==4H"34 3$' 1$' 3=% 547% 16' "' 3=% 1F%6' 1$' 1 ?1' $617' 3=% C63=%' 4 ?' =46:%' 1$' 4 @' C64%' 16' C7%5 1$' 71 %@' :64 3%?' H@' 3="5 $3' HC3' 3=43' 4' 4 ?' %B%6@' 5C2=' %651';4 ?' %651 5' "3@' J 42% %$$1C:=' 4 ?' 1F>%' 16>1643% 5=4 ;>4@ 3=%"6% >>1621 5' 1$' 4' 43%5' 4 ?' 55%55%7% 3$' H@' 3="5 $3' "7>15%?'4 @' 5C2=' %33%65' 433% 3$' G64 3$' >3' =463%65' 16' 4 @' 4C5% 1$' 1' H534 3% 433%6' 16' =" :' 3=%6%" ' 21 3%" %?' 16' 4 @;"4F% $43C"% C5317% 16' >5 6">21' 31' 3=% 21 3646@' 13F"3=534 ?" :f(

7 9@ o o' 4 F4@%5 4 ?' H%' "3 $C63=%6 % 44%? H@ 3=% C3 "16"3@ 4$16%54"? =43 $16 3=% 4B1"?%" :' 4 H536C221 5 ' 42%5 455%55%?" ' 4 ?' '.4@%5 " 455%5 :' 4 ? 21 %?3" :' 3=% C7%5 F=-"2=' H@' 3=' 5 $3' 46% 31' H% 643%? 4 ? 455%55%?' 4 ' 42%5 1 534H %F 2<$ '.'B"5"1 5 ? 133% 7 % 3$=-"=2= ' =4B%0 C5%?(31' H% 643%? 4 ? 455%55%?' 5=4 ' >4@' 4 ?(H%' 455%55%? ="5C2=' 1C 3@' C ?6%?' 4>% E4>% 34 % 1 534H %F-"2<%' '.'B"5?1 ' 42% 4 ? 133% 7 % 3 45 3=% 54 7 % =43=' =%6%31$16% C5C4 @ H%% % 455%55%?' " ' 4 ?' 13' % 5%F=%6%f' ' (

7 @ o o 4 F4"%5 4 ?' H% "3 $C63=%6 % 4?%? =43 " ' 4 ' >6"B" %?:%? 4 ? 3=%6 42%5' H6" :' %I364>4612H"4 ' 16' 13' F"3=" ' 4 @ 3=% 1=534H %F"?<$ 16' 6%2" $ 1$ 3=% 6%5>% "B % 55%551651 31' H% 4>>1" 3%? H@' B"63C% 1$ 3="5 ' 84 3=1C:=' " ' 4 @ 1 3= @' 16 '13=%6 41' 3=%@' =4B% 13 H%% % 455%55%? 1 6(643%? =%6%31$16% ' 3=% 54"? 1 7"543 7%65 1$ 4 @' F1' 16' 716% 1$ 3=%7' 5=4 ' 4 ? 43% =%6%H@' 6% C"6%? 31' 1 7' 43% 4 ? ((4>>1" 3% F1' $'33' %651 5 "B6" :' " ' 16' %46% 3=% 54"? >6"B" %?:%? 16' 13=%6 > 42%5 45 4$16%54"? 31' H% 55%551651 1 3=%(54"? 42%5 4 ? 31' 74<%'4 ? 6%$C6 % 3=6"6% 55%5 %7% 3$ " ' "<% 74 %8 45 H@' 3=%5 ' "5 4>>1" 3%? " ' 4 @ 46"5=' @3=6"=:' F1(16' 716% 1$ 3=%7' 5=4 ' 2%63'$,'% " 31' =%"6% 4,%53"%5 1C63% 1$ i12=% C%" 3=% 47%;' 1$ 3 .% %651 ' F=15% 4 ?$ 16' 1C5% 51% @%3=' C 122C>"%? 31:%3=%6 C7% 3=%6%C>1 ' 455%55%? 4 ? 3=% 46"5=' 16' 42% F=%6% 5C2=' 4 ? 16' 1C5% @%3=' F=-"2=' %63"$"243% "5 =%6%H@' ?%2 46%? 31' H% 4 5C$$"2"% 3 =46:%'C>1 ' 3=% %651 ' 4 ? B="2=' %63"$,"%?4% ' "531'H% 4 =46:.% ' 4 ?' 16' 1C5% 3=%6 " ' 47%?' 4 ? 5=4 ' 74<% 3=% %651 ' ,'H31@ 31' =%"6% 4.%53"%5 $1@ 3=% 5C7% 51% 455%55%? 4 ? 3=% 1C63 1$(i12=% C%@ 5=4 ' "55C% 1C3 612%55% 3=%6%C>1 ' 4.:4" 53 3=-' 1?@ G11?$ 4 ? 4 ' 13=%@ 3=%(' 4 ?' 612%55'31' "55C 4 ? 4 ?' 1$ 5C2=' ' H31@' 3=% C7% 51% 455%55%? H% $C @ 4 ?' 4$3?4 @ %B@%? 4 ?' =4"' 31' =%"6% 4.%53"%5

' 2 -o' "33 "5 =%6%H@ $C63=%6 % 4$3%? 4 ? ?%2 46%(? =43 433 3=% i1>"6421 ' 1$ 3=% 6%5>%UB% 3"7%5 " ' 3" 5 U' >%526"H%? $1@ 3=% $C (4@7% 3 1$ 3=% 5%B%64 ' 4 ? 6%5>%3"B% 43%5 4 ? 55%55 7 %H3$ =$%" ' H%$16% :64 3%? 3=$% %B:64 ' 4 ? 6%5>20"B% 17"5 1 %65 16' 4 @' F1' 6 "1$% 1$ 3= 7' F"3=" ' 3=%"6% ' "B"41 ' 4 ? C ?6%? 5=4 ' 4=? 1$' 3=% % 4 3"%5' 7% L %?' ' 3=%' ' 742% " 3=%' $"B% 4 ? ?F% 3"%3=' %46% 1$ 3=% 4".:' % $ i ?' :' =46 %5' 3=% %21 ?' $1@ 3 =%(>6%B% 3"*:' 1$ ' 4 :%65 F ' 74@ (=4>>% ' $61 7 ' 1>"5=' %2C54 3$

7 @ o o' 4 F4"%5 4 ?' H% "3 .%>4 %?' #>?3' 1% %651 ' 5=4 ' $%% 24>4H % 1$ 4 :' 45' 4' 17"55"1 %6' " ' 3=%' 34%%3=%" %43=5 1' 17 "55" 3=%' 1%2C21 ' 1$ (3=%5 Gq3=%" 4:4" 53 4 @ %651 ' 1$ %651 5 $16' F=435%1%B%6 H% 1$ 3=%@ 5=4 ' ?1% " ' >C65C4 2% 1$ H% 21 7 2%?' 1$' >615%2C3%? 4:4" 53 4 @ %651 ' 1$ %651 5 >%?' 7 4@' :"B% 3=-"5 ' 4 ? 7 2%' 4 ' %1%2C%" ;' !<'; ' ?' 23"1 '$>6' ' E'U ' .'ft M;. 7 "55"> %65 38 34%%3=%" 43=5 1f E ="2=' 1 7 7 ' ft 5"1 %65 7 4@ ' ' 42 7" "53%6 Gq %64" 55C%(8&. 1B"51 '6%>' 73>;' '55%55 7 3 ' ,' 1C5%5' F=%6%' (&16%" :O. "1"53%65 6%5"?%(((QQ Q ff(' 1C5C4 @ H%% % 455%55%? " ' 4 ?' 13' % 5%F=%6%f' ' (=%6%' 1C 3@;'U2(F=%6%' 1C 3@' C ?6%?' 4>% E4>% 34 % 1 534H %F"2<%' '.'B"5?1 ' 42% 4 ? 133% 7 % 3 45 3=% 54 7 % =43=' =%6%31$16% 455%55%?(7 @ o o' 4 F4"%5 4 ?' H% "3 $C63=%6 % 4?%? =43 " ' 4 @ 46"5=' 1C5%5' 1$ 1 534H %F"2<% 5=4 ' @% C 122C>"%? 4 ?' 1% ?"536%55% 24 % H% $1C ? 1$ 3=% 54 7% 16' 3=% '1$ \3=%R]' 36C% F %6' 16 ' 84 3=1C:=' " ' 4 @ 3=% 1 3= @' 16 '13=%6 41' 3=%@' =4B% 13 H%% % 455%55%? 1 6(643%? =%6%31$16% ' 3=% 54"? 61>%'%31$ 24 %(="$1C ?' F="3=" '3=% 1C 3@' F=%6%\" ']' 5C2=' 1C5% 16' 4 ?' @%3=' H@' (6%451 ' F=%6%1$ 3=% 43% 1 7"543 7%65 1$ 4 @' F1' 16' 716% 1$ 3=%7' 5=4 ' 4 ?' 43% =%6%H@' 6% C"6%? 31' 1 7' 43% 4 ?' ((4>>1" 3% F1' $'33' 4 ? 55%55% .% 3 C>1 ' 5C2=' C 122C>"%? 4 ?' 4 ?$ 24 13' H%' %B@%? 3=43 3=% ' C>1 ' 17 "55"1 %65 16' 4 @' 3=%6%1$ 31' 3=% 17"55">' %65 $1$6 3=% 1C 3@' F=%6% 5C2=' 245% 5=4 ' =4>>%' 31' H% 3=% 54"? 17"55"1 %65 16' 4 @' F1(16' 716% 1$ 3=%7' 5=4 ' 2%63'$,'% " 31' =%"6% 4.%53"%5 1C63% 1$ i12=% C%@ 3=% 47%;' 1$ 3 .% %651 ' F=15% 4 ?$ 16' 1C5% 51% @%3=' F=-"2=' 3=% 1C 3@' F=%6% 5C2=' 4 ?$ 24 13' H%' %B@%? 3=43 3=% ' C>1 ' 17 "55"1 %65 16' 4 @' 3=%6%1$ 31' 3=% 17"55">' %65 $1$6 3=% 1C 3@' F=%6%\" ']' 5C2=' 1C5% 16' 4 ?' @%3=' H@' (6%451 ' F=%6%1$ 3=% 43% 1 7"543 7%65 1$ 4 @' F1' 16' 716% 1$ 3=%7' 5=4 ' 4 ?' 43% =%6%H@' 6% C"6%? 31' 1 7' 43% 4 ?' ((4>>1" 3% F1' $'33' %651 5 "B6" :' " ' 16' %46% 3=% 54"? >6"B" %?:%? 16' 13=%6 > 42%5 45 4$16%54"? 31' H% 55%551651 1 3=%(54"? 42%5 4 ? 31' 74<%'4 ? 6%$C6 % 3=6"6% 55%5 %7% 3$ " ' "<% 74 %8 45 H@' 3=%5 ' "5 4>>1" 3%? " ' 4 @ 46"5=' 16' 42% F=%6% 5C2=' 4 ? 16' 1C5% @%3=' F=-"2=' %63"$,"%?4% ' "531'H% 4 =46:.% ' 4 ?' 16' 1C5% 3=%6 " ' 47%?' 4 ? 5=4 ' 74<% 3=% %651 ' ,'H31@' 31' =%"6% 4.%53"%5 $1@ 3=% 5C7% 51% 455%55%? 4 ? 3=% 1C63 1$(i12=% C%@ 5=4 ' "55C% 1C3 612%55% 3=%6%C>1 ' 4.:4" 53 3=-' 1?@ G11?$ 4 ? 4 ' 13=%@ 3=%(' 4 ?' 612%55'31' "55C 4 ? 4 ?' 1$ 5C2=' ' H31@' 3=% C7% 51% 455%55%? H% $C @ 4 ?' 4$3?4 @ %B@%? 4 ?' =4"' 31' =%"6% 4.%53"%5

' 2 -o' "33 "5 =%6%H@ $C63=%6 % 4$3%? 4 ? ?%2 46%(? =43 433 3=% i1>"6421 ' 1$ 3=% 6%5>%UB% 3"7%5 " ' 3" 5 U' >%526"H%? $1@ 3=% $C (4@7% 3 1$ 3=% 5%B%64 ' 4 ? 6%5>%3"B% 43%5 4 ? 55%55 7 %H3$ =$%" ' H%$16% :64 3%? 3=$% %B:64 ' 4 ? 6%5>20"B% 17"5 1 %65 16' 4 @' F1' 6 "1$% 1$ 3= 7' F"3=" ' 3=%"6% ' "B"41 ' 4 ? C ?6%? 5=4 ' 4=? 1$' 3=% % 4 3"%5' 7% L %?' ' 3=%' ' 742% " 3=%' $"B% 4 ? ?F% 3"%3=' %46% 1$ 3=% 4".:' % $ i ?' :' =46 %5' 3=% %21 ?' $1@ 3 =%(>6%B% 3"*:' 1$ ' 4 :%65 F ' 74@ (=4>>% ' $61 7 ' 1>"5=' %2C54 3$

7 @ o o' 4 F4"%5 4 ?' H% "3 .%>4 %?' #>?3' 1% %651 ' 5=4 ' $%% 24>4H % 1$ 4 :' 45' 4' 17"55"1 %6' " ' 3=%' 34%%3=%" %43=5 1f E ="2=' 1 7 7 ' ft 5"1 %65 7 4@ ' ' 42 7" "53%6 Gq %64" 55C%(8&. 1B"51 '6%>' 73>;' '55%55 7 3 ' ,' 1C5%5' F=%6%' (&16%" :O. "1"53%65 6%5"?%(((QQ Q ff(' 1C5C4 @ H%% % 455%55%? " ' 4 ?' 13' % 5%F=%6%f' ' (=%6%' 1C 3@;'U2(F=%6%' 1C 3@' C ?6%?' 4>% E4>% 34 % 1 534H %F"2<%' '.'B"5?1 ' 42% 4 ? 133% 7 % 3 45 3=% 54 7 % =43=' =%6%31$16% 455%55%?(7 @ o o' 4 F4"%5 4 ?' H% "3 $C63=%6 % 4?%? =43 " ' 4 @ 46"5=' 1C5%5' 1$ 1 534H %F"2<% 5=4 ' @% C 122C>"%? 4 ?' 1% ?"536%55% 24 % H% $1C ? 1$ 3=% 54 7% 16' 3=% '1$ \3=%R]' 36C% F %6' 16 ' 84 3=1C:=' " ' 4 @ 3=% 1 3= @' 16 '13=%6 41' 3=%@' =4B% 13 H%% % 455%55%? 1 6(643%? =%6%31$16% ' 3=% 54"? 61>%'%31$ 24 %(="$1C ?' F="3=" '3=% 1C 3@' F=%6%\" ']' 5C2=' 1C5% 16' 4 ?' @%3=' H@' (6%451 ' F=%6%1$ 3=% 43% 4 ?' 55%55% .% 3 C>1 ' 5C2=' C 122C>"%? 4 ?' 4 ?$ 24 13' H%' %B@%? 3=43 3=% ' C>1 ' 17 "55"1 %65 16' 4 @' 3=%6%1$ 31' 3=% 17"55">' %65 $1$6 3=% 1C 3@' F=%6% 5C2=' 245% 5=4 ' =4>>%' 31' H% 3=% 54"? 17"55"1 %65 16' 4 @' F1(16' 716% 1$ 3=%7' 5=4 ' 2%63'$,'% " 31' =%"6% 4.%53"%5 1C63% 1$ i12=% C%@ 3=% 47%;' 1$ 3 .% %651 ' F=15% 4 ?$ 16' 1C5% 51% @%3=' F=-"2=' 3=% 1C 3@' F=%6% 5C2=' 4 ?$ 24 13' H%' %B@%? 3=43 3=% ' C>1 ' 17 "55"1 %65 16' 4 @' 3=%6%1$ 31' 3=% 17"55">' %65 $1$6 3=% 1C 3@' F=%6%\" ']' 5C2=' 1C5% 16' 4 ?' @%3=' H@' (6%451 ' F=%6%1$ 3=% 43% 1 7"543 7%65 1$ 4 @' F1' 16' 716% 1$ 3=%7' 5=4 ' 4 ?' 43% =%6%H@' 6% C"6%? 31' 1 7' 43% 4 ?' ((4>>1" 3% F1' $'33' %651 5 "B6" :' " ' 16' %46% 3=% 54"? >6"B" %?:%? 16' 13=%6 > 42%5 45 4$16%54"? 31' H% 55%551651 1 3=%(54"? 42%5 4 ? 31' 74<%'4 ? 6%$C6 % 3=6"6% 55%5 %7% 3$ " ' "<% 74 %8 45 H@' 3=%5 ' "5 4>>1" 3%? " ' 4 @ 46"5=' 16' 42% F=%6% 5C2=' 4 ? 16' 1C5% @%3=' F=-"2=' %63"$,"%?4% ' "531'H% 4 =46:.% ' 4 ?' 16' 1C5% 3=%6 " ' 47%?' 4 ? 5=4 ' 74<% 3=% %651 ' ,'H31@' 31' =%"6% 4.%53"%5 $1@ 3=% 5C7% 51% 455%55%? H% $C @ 4 ?' 4$3?4 @ %B@%? 4 ?' =4"' 31' =%"6% 4.%53"%5

- J' G "6 "f (' N 9 $ & ' U (! / I

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C>76?5 13=46" :' 1$' "I3%% % %46%5 1$ C>F46?$ F=1' 5=4 ' 13 =4B% 34<% ' ' 3=% 43=%5 ' 7% 21 %? 4=?' 6% C"6%? 31' H% 34<% ' H@'
? 1 C H Y @ " % ? ' 4""? >4@' C 31' =?6>' 4.%53"%5' ?1CH %' 3=% C7%5 4 ? 43%5' F="2=' H@'
(' D $162% 8WD'B"63C% 1$' 4 @ 2 4C5% " ' 3="5 ' H%$16% 7% 21 %? 16 21 34" %? =%R 16 5=% 5=1C ?R 16 C:=3 31' 4@ 16 H%
2=46:%? F"3=' 83=43 "5' 31' 54@' &16 %B%6@ C ?6%? 1C ?$ 1$' 6%4?@' 71 %@ U ' %H3$' 4 ? $16 ' C ?6%?'
1C ?$ * ' 1$' G11?$ KE46%5 %62=4 ?"`%5 =433% $ 16(%651 4 ' 5343% 3=% 5C7% 1$(' !":=3 4 ? &163@ =" " :$'
4 ? 51% 4$3%6 3=43 643% $16 %B%6@ :6%43%6 16 %55%6 OC4 3"3@(?' $16 % %6@ F% 3@' ="$" :$' 1$' 3=% $C '
@%46% @ K&4C% 1$' 4 @ 4$" 165 %55C4:%5' 16(13=%6 %6%?"34 7% 3$ ' >7"55%5 2=46:%? H@' 3="5 $/ F="2=' =% 16
5=% 5=4 ' = B% 16(=1 ?' 3=% 5C7% 1$' !":=3 =" " :$' 31' H% 455%55%? %B@%?' 4 ? 21 %?3%?' M4 5F%6%?' 6%21B%6%?' (4 ?
>4"?" ' 5C2=' 74 %6 H@' 5C2=' F4"%5 4 ? 42216?" :' 31' 5C2=' C %5' 4 ?' '"6%221 5' 4 ? C ?%6 5C2=' % 43"%5 >"?'
&16$%"3C6%5 45 46% H%$16% " ' 3="5 $3' %I>6%55%?' >6 4>>1" 3%?' $16' 4 ? 21 2%7%" :' 3=% 4H1B% 7% 21 ?' 43%5' 4 ?'
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42216?" :' 31' 3=% " 3% 3' 1$' 3="5 >6%5% 3 +' 5=4 ' 34<% 3=% 54"?(43=%5' H%$16% F1' 16 716% 1$' 3=% 54"?' 177"55"1 %6 ' '
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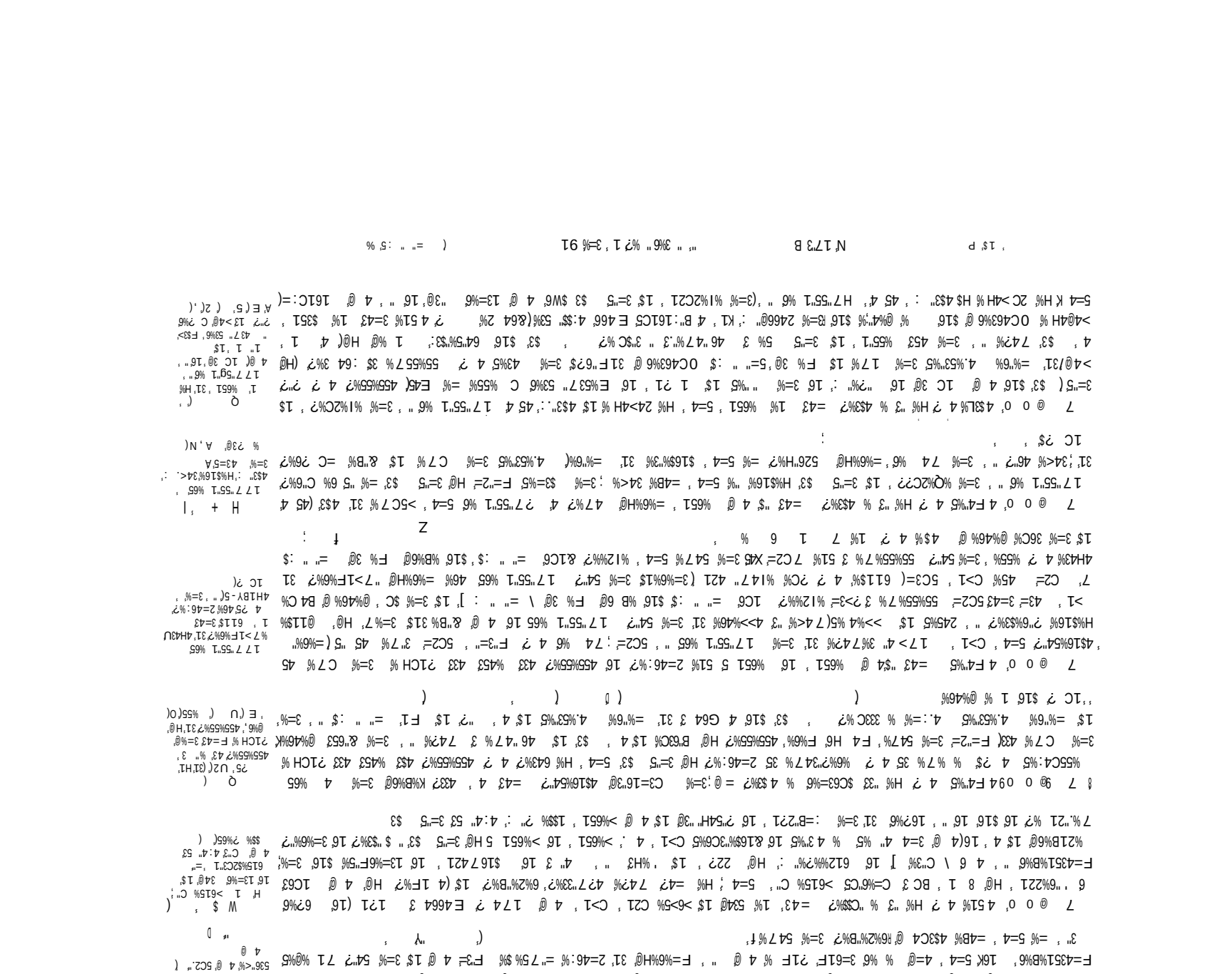

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3=.3‘ C>H ‘ >611$‘ 31‘ ="7‘ 16 3=%7‘ 74?% 8F="2= 611$‘=% 4 ?‘ 3=%@‘ 5 U‘ 46% =>6%H@‘ 4C3=16"`%?U]‘ 6% 7;6%?‘ 31

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' Q (' H% "3' $C63=(%6' % 4?%?' H@' 3=% 4C3=16"3@' 4$16%54"?' =43' 3=%6% 5=4 ' H%(>61B"?%?' 4 ?' <%>3' " ' =%"6' 4.%53"%5
') L-' ' I ' B 2' ! I2=% C%6' 83=43' "5' 31' 54@' " ' 3=% $$"2%6' 1$' (3=% C$$"316' 1$' 3=% %2%">3$' 1 % 11<' " ' F="2=' 4 ' 7 1 %@5' 3=43' 5=4 '
' 1 ' E41 [H%' >4"?' " 3>' 3=% ! I2=% C%6 H@' B%63C%' 1$' 3="5 _3' 5=4 ' H%' % 36%?' 4 ?' 6%:"536%?' 4>463' 4 ?' ?"53" ?' $61 7 ' 4 ' 13=%6'
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'I ' 4 N 3' H@'(?"1 ' 1$' ' %H3' " ' 4" 3' 16' $16 7 43"1 ' ("' 4 @' 1$' 3=%"6' 4.%53"%5' 1C63$' 1$' %216?' 43' E%53 7" 53%6' F=%6%" '
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EN 7 @ o o:4 F4@5' 46"? H%' "3' =%6%H@' ?%2 46%?' =43' "$' "3' =4>>% ' 3=43' 5%@>34' 4 "%5' 1&' "31"' 16' 6?%65' $16' >4@ 7 % 3'
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0 4 4 .% 0' - 4 - N 3' H6" :'(3=%=' 6?%6' " ' 3$"%"6' 21C35%' 51' 45' 3=%6% ' H% 51' 7 C2=' 7 1 %@' 6%5%6B%?' 45' D F' 543"5$"% >6%2%?% 3' 6?%65' F="2='
'- -05'2 4 3 +' ?"5>15%?' HC3' <%>3' $16' 3=% 7' 3%6%53' C>1 ' 14 ' H%$$": 31' 2%45%' $61 7' 3=%' " 7 % ' 3=%' " "1 $%@
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6?%65' $16' 1 %@ H%' ?C%' H@' B"63C%' 1$' 3="5' $ / 4$3%6' 6?%6' % 36%?' " ' 3=% 11<' 1$' %:"53%6' 4$16%54"?' $16' >4@ 7 % 3' 3=%6%1$' ="5' ! I%2C3135'
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4$16%54"? 4 ? 46" % 36@ 16' 7%716"4 ' 3=%6%1$ 4 51 ' 74?%;" ' 3=% 11<' 1$' %:"53%6' 4$1$%5>?' $16' 6?%65' F="2=' 3=% %7 16"4 '
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455": ' 4:4" ' 4 ?' 51' 313"%5' C13"%5 ?' 4$3%6F46?5' "3 5=4 ' 13' H%' " ' 3=% >1F%6' 1$' 5C2=' >%651 ' 16' >%651 5' F=1'
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%2%">3' 1$' 3=%' ! I2=% C%6' 45' F% ' C>1 ' 14 ' 45' 13=%6F"5% H@' B"63C%' 1$' 3="5' ,3' 16' 4 @' 13=%6' U' 1$' 3="5' %55"1 ') OO, A), '1C3'1$'
1$' 46 "47% 3' $16' :64 3" :' "?$' 16' C>> "%5' 31' 3=% 6 4.%53"%5 13=%6' 3=% K4 $3' % 3"3C %?' ' $3' $16' :64 3" :' 1 "%5'16'4 @'13=%6'
31(b6=%"6' 4.%53"%5' 4 ' "?' 1$(&1C6%5=" " :$" ' 3=%' >1C ?' $16' 1 % @%46%' $16' 2466@" :' 1 ' 4' B":161C5' K 46 4:4" 53' 1$' 3="5' %55"1 '
 64 2%' 3=%W C7' 1$' F% B%' =C ?6%?' 3F% 3@' 5"I' 3=1C54 ?' $"B%' =C ?6%?'4 ? 5"I3%% ' >1C ?$' 3% ' 5=" " :$ 5=4 ' H%' %I2%>3'2'C'4 3%'
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5%6B%?' 4 ? 5=4 ' 5%6B% " ' 3=%"6' 4.%53"%5 4B@' 1@4 ' 4 ? $16' 3=% (>4@" :' $16' 316%5' 6%B"5"1 5' 4 ? "$3C4 5' 5C>> "%?'
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31f 4B4 ' 6"$$4"65' 4 ?⇕$16' '13=%6' %2%5546@' C5%5' 4 ? 5%6B"2%5' >%6$16 7%?' 4 ?' 31' H%' >%6$16 7%? " ' 4 ? $16 3=%' (54"? 4B@'
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H@' 21 364$3' F"3=' 3=% @' 146?' H%$16% 3=% &"653' ?4@' 1$' 4 C46@' % 3=1C54 ? 5"I' = ?6%?("" %3@' 3F1' 51' 45 31' 3=%' 4B@' 13'
4' %63"$"243% H% :"B% ' $617' 3=% 17"55$1 %65' 1$' 3=%' 4B@' 3=43' C2=' &16%": % 316%5' =4B% H%% ' 51' 1 364?%?' $16' 2=46:%?'H@' 3="5
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%6B4 3$' F=1' =4B% 6⇕5=4 ' =4@% 4 @' 7>1@7% 3' " ' 16' 4H1C3' =%"6' 4.%53"%5' C53 75' 5=4 ' H%$16% 3=% " %3%% 3='
?4@' 1$' >6"' %I3' 16' 433' 3=%"6' 6%5>%$3"B% 4?7"55"1 5'=%6%4$3%6(31' 5C2=' "7> @7% 3' 34<% 3=%"6' >6>164' 43=5' $16'
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6%:C 46' &%%5' %$34H$35=%?' H@ 4F' $16' 4 @' 5%6B"2% ?1 % 16' 31K' H%' ?1 % " ' 3=% %I%2C3"1 ' 1$' 3=%"6' "7>1@7% 3' " ' K3=%
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, 4.%53@' 9" :' G=W "25' 3=%' $3%216"$' % 3"3C %?' '($3' $16' 16?%6" :' 3=%' &162%5' " ' 3=% 5%B%64' 1(C 3"%5' K1$ 8) - ' 46("'$('2('A(
⇕3="5' 9" :?17' "3' B645' 8471 :5' 13=%6' 3 $" :$' % 4$3%?' 3=43' " ' 245% 1$' B4 .1$'5 5 66%?3"1 5' 16' %H% "1 5' F=%6%H@' g?
12245"=$3'5=1C ?' H%' 3e'?64F' 1 3' 3=% 1C ?"%35' 7% 3"1 %?' 4 ?' 4>>1" 3%?' " ' 4 ?' H@' 3=%' 54"? $3' " 31' 4$3C4' 5%6B"2%'
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2 o F=%6%45 :6%43 4HC5%5 46% $6% C% 3@ 217"3%? H@ 3=% "H%63@ 34<% H@ 517% $$"2%65 4 ? 1?"%65 31 C463%6 3=%"6 E"B%5 =" ?6% 4 ? 74?% %6B4 3$ " 3=%"6 OC463%65 21 3646@(31 3=% >C6>163 4 ?7%4 " : 1 3="5 % "3 % 4$3%? H@ 3=% C3=16"3@ 4$16%54"? =43 "$ 4 @ $$"2%6 " "346@ 16 "B"" H@ 3="5 " 4C3=16"`%? 31 C463%6 1?"%65 " 4 @ 1C5%5 =%6%H@ 4>>1" 3%? $16 3=43 >C6>15% 5=4 433 4 @ 3"7% ?C6%" : 3=% 21 3" C4 2% 1$ 3="5 $3 C463%6 4 @ 1$ 3=% E"B%5 =" ?6% 16 4"? %6B4 3 1H $$ 3 16 1?"%6 " 4 @ 5C2= 1C5%5 4:4" 53 3= 21 5% 3(1$ 3=% F %65 3=% >463@ 1$$% ?" : "$ 8; $$"2%6 16 1?"%6 1$ 3=% 67@ 5=4 C>1 >17>4" 3 4 ? >611$ 3=%" 1$ 74?%31 3=% 1774 ?%6 " =" %$ 1$ 3=% 67@ 16 C?:% ?B1243% H% ">51 $4? 1 245="%6%? 4 ? "$ 4 1 534H @3=" :74 16 13=%6 "B" $$"2%6 =% 5=4 16%"3 31 3=% >463@ :6"%B%? 3=% C7 1$ F% 3@ 5=" " :$ C>1 217>4" 3 4 ? >611$ 3=%6%1$ 74?% 31 3=% %13 C 2% 1$ %42% 1$ 3=% >42% 31 H% %B"%? H@ E4664 3 1$ 5C2= C53"2% H@ ?"536%5.% 4 ? 54% 1$ ="5 G11?$ 6%=?6" : 3=% 1B%6> C5 31 3=% >463@ 4$3%6 ?%?C$3"1 1$ 6%451 4H % =46:%5 (" 34<%" : 3=% 547%(

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92)L' H%' "3' % 4$3%?' H@' 3=% C3=16"3@' 4$16%54"?' =43' "$' C>1 ' 3=%' 6%3C6 ' 1$' 3=%' ' C> "243%5' "3(5=4 ' 4>>%46' 3=43' 3=%M(43%5' 4@ 7 % 35' 16' C 75' 1$' 1 %@' 31' H% 455%55%?' 21 %$3%?' %B"%?' 4 ?' >4"?' H@' B"63C% 1$' 3="5' $3' ?1%' ' 4 7 1C 3' 31' "H%' C" ' 1$' =6%%' =C ?6%?' 3=1C54 ?' >1C ?$' 3=43(3=% 43 4""@' 3" 7 % 16' 3" 7 %5' $61 7' 3=% 2%$163=' "3' 5=4

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2 o' F=%6%45 3=% %2%"B%65 1$ 3=% %B% C%4 ? "?5 :"B% 31 =%"6 4.%53"%5 4 ? ?"B%65 13=%6 %651 5 =4B% " 74 @ > 42%5 1$ 3="5 9" :?17 6%$C5%?' 31 6%2%"B% 16 34<% " >4@7% 3 4 @ 5163 1$ 2642<?' 71 %@ F="2= H@ 4F' "5 4 ?(1C:=3 31 >455% 45 3=% 2C66% 3 1" 1$ 3="5 %4 7% H@ 6%451 1$ F="2= 6%$C54 " 4 @ 1$ =%"6% 4.%53"%5 :11?' CH.%?35 46% C ?%6 :6%43 =46?5="> 5 4 ? ?"$%"2C 3"%5 $16 F4 3 1$ 71 %@ 31 >4@ 3=%"6% 41%5 4 ? 5C>> @ 3=%"6% 18=%6 %2%5546@ 12245"1 5 F=" 53 3=% 54"? 2642<;?' 71 %@ "%5 ?%4? H@ 3=%7 4 ? "5 6% ?6%? F=1 @ C5% %55% 31 =%"6

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31:%3=%6 F"3= 1535 1$ C"3% " E="2= C"3% 1% !551" % 613%? "1 6"B" %?:5 E4:%6 1$ 4F 16 716% 3=% 1 % " >46 4=2% 3%4 H% 4 1F%? 4 ? 5C2= $$% ?%6 5=4 451% H% "4H % 31 5C2= 13=%6 C "5=7% 35 45 H@ 4 @ 4F 16 343C3% 1F " $162% 74@ 16 1C:=3 31(H%% " $"?"%? $16 5C2= $$% 2%

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2 o8 H%' "3' $C63=%6' % 4$3%?' H@' 3=%' 4C3=16"3@' 4$16' 54"?' =43' $16' % %6@' 5=46%' " ' 3=%' 1" 3' 312<' 1$' 3=%' C?51 5' 4@' 17>4 @' 42216?" :' 45' 3=%' C7H%6' 1$' 5=46%5' 46%' 1F' 6%2<1 %?' 4 ?' 217>C3%?' 3=%6%' 5=4 ' H%' 4 5F%6%?' 4 ?' >4"?' (31' 3=%"6(4.%53"%5' 3=%' 5C7' 1$' &"B%' >1C ?$' 3=%' 547%' 31' H%' >4"?' H@' 3=%' G1B%6 16' 4 ?' 6%45C6%6' 1$' 3=%' 54"?' C?51 5' 4@' 17>4 @' H@' $1C6' % C4 ' C463%6 @' >4@7% 3$' 3=%' $"653' >4@7% 3' 31' H% 74?%' B>1 ' 3=%' 54"?' $"B%' 4 ?' 3F%' 3"%3=' ?4@' 1$' 462=' %' 3=1C54 ?' 5"I' =C ?6%?' " %3@' 4 ?' 3=6%%' 4 ?' 31' H%' ?%?C?3%?' 42216?" :' 31' 3=%' 5%B%64 ' 5=46%5' 4 ?' >61>16$"1 5' 1$' 3=%' 5 H%65' 1$' 3=%' 54"?' 17>4 @' " ' 3=%' 1" 3' 312<' 3=%6%1$' C>1 ' 3=%' %I3' 'B"?% ?$' ?' " ' 245%' 3=%' G1B%6 165' 4 ?' 6%45C6%65' 1$' 3=%' 54"?' 6%5>%$ .B%' 17>4 "%5' 5=4 ' 74<%' ?%$4C3' " ' >4@7% 3' 1$' 3=%' 54"?' 5%B%64 ' C75' 16' 4 @' 1$' 3=%7' 6%5>%?3"B%@' 2=46:%?' 1 ' 3=%' 312<$' 1$' 3=%' 54"?' >7>4 "%5' 433' 3=%' ?4@5' 4 ?' 3"7%5' 4$16%54"?' 42216?" :' 31' 3=%' 36C%(" 3%>3' 1$' 3=%5' ?" 3=%' =463%6' 1$' 5C2=' 17>4 @' 6%5>%?3"B%@' 5=4 ' H%' 4 ?' "5' =%6%H@' 4?.C?:%?' 31' H%' B1"?(

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#e' H%' "3' $C63=%6' % 4$"3%?' H@' 3=% 4C3=16"3@' 4$16%54"?' =43' 4 ' 4 ?' %B%6@' >%651 ' 16' >%651 5' F=435>%B%6' F=1' 5=4 ' 4:6%%' 31' >4@' 4 @' C7' 16' 5C75' 1$' 71 %@' $16' 3=% " 5C6%" :' 16' 21 B%@" :' 4 @' G11?$' 16' %62=4 ?"`%5' 3H' 5=4 ' H%' 51' "7>163%?' F"3=1C3' >4.$$"":' 3=% C53175' 4 ?' 'C3"%5' ?C% 4 ?' >4@4H % 433' 3=% 7>16343"1 ' $" %6 %1$' 16(1$' 4 @' >61="H"3%?' G11?$' F=4351%B%6' 16' 5= ' 6%2%"B%' 16' 34<% 5C2=' >61="H.3%?' G11?$' " 31' ="5'(16' 3=%"6 1C5% 16' E46%$$"HC5% 16' 13=%6' > 42%' 1 4>?' 16' 5C2=' 3=%6 G11?$' H%$16%' 5C2=' C53175' 4 ?' 'C3"%5' 46%' >4"?' < 1F" :' 3=%6%>$' 5=4 ' \4 51%J]' $16' %B%6@' 5C2=' 1$$% 2%' 16%"3' (4 ?' 15%' 3=%' "<%' C7' 1$' &"B%' =C ?6%?' >1C ?$' 3=%' 1 % =4 $%' 1$' 3=%' 54"?' 16%"3C6%5' 31' H%' 31' 3=%"6' 4.%53"%5' 4 ?'(3=% 3=%6 =4 $%' 31' 3=% $167%6' (16' 5C2=' >%651 ' >6' >%651 5' 45' 5=4 ' 5C%' $16' 3=% 433'%(% 4$"@' $H E'Z

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16' 6%2%"B" :' 3=% G11?$' 45' 4$16%54"?' " ?" ' 245% 1' ?"521B%6@' 5=4 ' H% 74?% H 3' 3=% 5C6%6' 1 B%@%6' 16' 4 4 : %6' "
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%$24(6%21B%6' U?' 6%F"B% H42< 5C2=' $%64".2% 7 1 %@' 16' 6% 7 "C 7' 45' =% =43=' >4"?' B>1 ' 5C2=' 5C64 2% 16' : 6%% 7 % 3' 4 ?;
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15%' ="5' F=1 %' 7 1 %@' 16' $162%?' 31' >4@' 1$' 3=% ' %H3$' 5%2C6%?' (H@' 3=% 54"?' C?: 7 %".3$' 343C3%5' 4 ?' %21 : "`4 2%5'
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3=%"6' 4 ?$' 7 16%' 3=% ' 1 2%' F"3=1C3' : "B" :' 13"2%' 1$' 3=%"6' $"653' 7 163 : 4 : %' F=%6%H@' % ?%65' 1$' 7 1 %@' B>1 ' 5%21 ?'
16' 4$3%6' 7 163 : 4 : %5' ?1%' 1$3% ' 15%' 3=%"6' (7 1 %@' 4 ?' 46%' >C3' 31' : 6%43' 2=46 : %5' " 5C"3$' 4 ?' 13=%6F"5%(&16' 6% 7 %?@'
F=%6%1$' 4 ?' >6%B% 3" :' 3=% 54 7 % 45' 7 C2=' 45' 7 4@' H% $16' 3=% $C3C6%' % "3' % 4?%?' H@' 3=% 9" :' 4 ?' 0C%% 5' 7 153'
%I2% % 3' 4.%53"%5' H@' 4 ?' F"3=' 3=% 4?B"2%' 4 ?' 21 5% 3' 1$' 3=% 16?$' >"6"3C4 ' 4 ?' %7>164 ' 4 ?' 3=%' 171 5'
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4.%53"%5 5C2=' 5C75' 45' 3=% 17"55"1 %65' 16' 51' 74 @ 45' 5=4 ' H% >6%5% 3' 16' 3=% 74.16' >463' 1$' 3=%7' H%" :' >6%5% 3'

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& 3' ' 1 ' B %55C4:%5' 4 ?5 >(

?' %B%2@ 55%5516' 51' 45' 4$16%54"?' 4>>1" 3%?' 16' 31' H%' 4>>1" 3%?' 5=4 ' H%$16%' =%' 34<%' JC>1 ' ="7' 3=%' %I%2C2""""3' N 5' -- -- -' 1$' 3=%' 54"?' 7>1@3 f 34<%' 3=% 143=5 7 % 3"1 %?' 4 ?' 6% C"6%?' 31' H%' 34<%' H@' 4 ' $3' 74?% " ' 3=%' 46 "4 7 % 3' =%?' I 0 '1 ' 0 -' ' L ' 1 ' 1-' 0' " ' 3=%' $"653' @%46%' 1$(' =X6' 4.%53"%5' %": %' " 3"3C %?' ') ' $16' 3=%' 4H61:43%" :' 3=%' 143=5' 1$' C>6% "42@' 4 ?' ' Z ' C' (' --' ! ' %:"4 2%' 4 ?' 4>>1" 3" :' 13=%6' 143=5' 4 ?' 4 51%' 34<%' 4 ' 143=' 31' H% (4?7" "536%?' " ' 3=%5%' F16?$' $1 1F" :(' 1C' (*(5=4 ' 5F%46 %" ' 4 ?' 36C% @ 31' %I%2C3%' 3=%(C3@' 1$ 4 ' 55%5516' 4 ?' 31' 24C5%' 3=% 43%5' 4 ?' C3"%5' "7>15%?' H@' 4 ' ' ?' % 3"3C %?' ' ?' $16' :64 3" :' 31' =%"6' 4.%53"%5 4 ' 4"?' 1$' $1C6' 5=" " :$ " ' 3=%' >1C ?' $16' \ %' @%46%' $16'R' 2466@" :' 1 ' 4' B":161C5' E46 4:4" 53(' &64 2%' 31' H%' ?C% @ 4 ?' "7>463"4 @' 455%55%?' 42216?" :' 31' 3=%' H%53' 1$' @1C6' 5<" ' 4 ?' 9 1F %?:%' 4 ?' 3=%6%" ' @1".' 5=4 ' (5>46%' 1' %651 ' $16' &4B1C6' (16' $%?"1 ' 16' 4 @' %651 ' :6"%B%' $16' 436%?' 16' (F" (' 1' =%>' @1C' 01?f E="2=' 43=5' 4 @' F1' 16' 716%' ?$' 3=%' 17"56"1 %65' " ' 3=%' 1C 3@' "3@' 13' 42%' F=%6%(3=%' 54"?' 55%55 7 % 3' "5 31' (H%' 74?%' =4B%' =%6%H@' >1F%6' 4 ?' 46%' =%6%H@' 6% C"6%?' 3>' 4?7" "53%6

' ' H%' "3' $C63=%6' % 4?%?' JH@' 3=%' 4C3=16"3@' 4$16%54"?' =43' 3=%' 43%5' 4 ?' 55%55 '"% 3$' C>1 ' (4 ' 6%4?@' 1 " 5' ' %H 3$' G11?$' (=4332 5' %6:1 4' !5343%5' 4 ?' =H 2<' $$"2%5' 4" ?' 7>1@7% 3$' 1$' 61$"33 ' 2=46:%?' =@' 3="5' ?' 5=4 ' -- -- -' ' I ' KH%' 452%634" %?' 4 ?' K3=%' %63"$"243%5' 6""%6%1$' 6%3C6' %?' (31' 03=%' 17 7"55"1 %65' C>1 ' 16' H%$16%' 3=%&"$3=' ?4@' 1$' 462= %' 3=1$"54' ?K' 5" I' =C ?6%?' (" %3@' 4 ?' 3=6%%' C %55%' "=% 17 7"55"1 %65' $=4 ' 3=" <' $"33' 31':"B%' 4' $C63=%6' 3"7% I 0 'A3=' 5' 0 ?' 4 51%' 3=%' 34I43"1 5 '4 ?' 455%55 7% 3 ' 1$' 3=%(1C ?' 43% K?$' &1C6%' 5=" " :$ " ' 3=%' >1C ?1$' 3=%' @%46%' @' B4 C%' (41' SA .' -- 1 5' + N ' 0 1 1$' 4 ' 4 165' %55C4:%5' (4 ?$' % %7% 3$' %6%?"34 7% 3$' 4 ?' 6%7"55%5' 3=46:%?(H@' 3="5' ?' 5=4 ' H%' 74?3' 4 ?' 45(2%%634" %' 4 ?' 3=%' 5%B%64 ' 4 ?' 6%5>%?"B ' %63"$"243%5' 3=%6%1$' 6%3C6' %?' " 31' 3=%' 17"55$1 %65' C>1 ' 16' H%$16% 3=%' &"$3=' ?4@' 1$' 462=' 4$16%54"?' C %55% 3=%' 17 7"55"1 %65' 5=4 ' 3=" <'=33' 31' :"B%' $C63".%6' 3"7% ?' C>1 ' 6%3C6 % 0' ' ': 1$' 4 @ 5C2=' %63"$"243% 3=% 17"55"1""%6 '16' 4 @ =6%% 16' 716%' 1$' 3=%7' 5=4 ' 4 ?; "4@ '8"$ 3=%@' 5%% 24C5%' %I47(" Y -- -' 3=% 5%, 3%65 3=%6%1$' $"?' "$' 3=%' 54"?' 17"55"1""%65' 16(' 4 ,B3=6%% 16 716%' 1$' 3=%7' F"3=" ' 3=%"6 5%B%64 ' "7"33$' 433', 2' E ,1 - ' 5X 3=% 3"3=% 6L$' 3=% 6%3C6 %K' 1$' 3=% 2%63"$"243%5' 45' 4$16%54"?' 16' F"3=" ' F% 3@' ?4@5' 4$3%6' 5=4 ' < 1F' 16' =4B% :11?' 24C5% 31' 5C5>%$$' 3=43' 4 @' >%651 ' 1$' >%651 5' 16' 4=@' 3=% 4 165(%55C4:%5' 4 ?$' 16' 13=%6' K3=% 6%7"55%5' F="2=' 1C%=3' !0' -- -' 31' H% 7%= 1 %(?' 4 ?' =46:%?' " ' 3=%' 54"?' %63"$"243%5' 8"5' F ' 46%' 17"33%?' 1$' 3=43' 4 @' >%651 ' 1$' >%651 5' 7' 3=%' 2(' 54"?' %63"$"243%5' 7% 3"1=%?' "5 (16' 46% (1$' 4' :6%4$%6' J!534.% (16' 3=43' 4 @' 3=% 4"?' 4 165' 16 13=%6(6%7"55%5' 41% 1$' 4' 1 ' ' 0' " 3-' :6%43%6;@%46%@' B4 C%' 3=% ' " ' 3.3% 54"D' %63"$"243%' "5 7% 21%?' 3=%' 54"?' 17"55"1 %65' 16R4 @' 3=6%%' 16' 716%' 1$' 3=%"> 1 5' 5' - ' =4 =4B%' >1F%6' 31(5C7163' 5"' =' >%651 ' 16' >%$?5 4 ?' 3=% F %65' 4 ?' 155%55165' 1$' (5C2=' 4$"165' 16' 13=%6 5' I ' 6%7"55%5' 31' 4>>%46' H%$16%' 3=%7' .33' 4' ?4@' 4 ?' >42%' >6%$"I%?' 31' H%' %I47" %?' 31C2=" :' 3=% 433%65' 4$16%54"?' ? E 3B "$ 3=%' (>?651 ' 16' >%651 5' 5C7 71 %?' 31' H%' 51%"%I4"$"" %?' 5=4 ' %:%?' 31' 4>>%46%' 8 13' =4B" :' 4' 6%451 4H%' %I 2C5% - -' 6 W 3' \16' 5C2=' /=" 5' ?%$4C 3' 1B%6@' >%6:1 ' 523%' 74<%" :' ?%$3"C 3' 5=4 ' >4@' 31' 3=%"6 ' 4.%53"%5' ?1" . %3=%' 5C 7' H%%' 5=1C ?' 4> %467: ' e6' 1C:=3' 31' =4B%' H%%' 5%3 433(' 16' 643%?' ?' 716%1@ 6 3=% 17 7"55"1 %65; 16(3=% 74.16' R>463' 1$' 51' 74 @' 1$' 4 -- -' 5 3=%7 ' 45' 5=4 ' H%' >6%5%3"3' 5=4 ' =4B%' >1F%6' H@' 4 ' 4F$C ' F4@5 4 ?' 7%4 5' 31' %6 7 " %' " 31' 3=%K' %5343% 1$' 5C2=' % E ' ' '

>%651 ' 4 ?' 3=%(B4 C%' 1$' C2=' 6%7"55%5' 2=?" :%4H% H@' 3="5' $ f (4 ?' 31' 5%33 5C2=' 4$%' 16' 43%5' C>1 ' 3=% 54 7% :43%? 42216?" :@# 45' 5=4 ' 'H%' 42216?" :' 31' 3=% 33C%' " 3% 3' 1$' $="5' / ?' 3=%(54"?' 55%55165' 46% =%6%H@' 6% C"6%?' 31' :"@%' 1 % -- -- -' [' + N 1>@' 1$(' 3=%"6' %63"$"243%5;' 16' 55%55 7 / $4"$% @' F6"33% ;4 ?' 5CH 6"H%?' H@ 3=%6"" C 31' 3$"%(54"?' 17"55"1 %65' H@' 55 6"% "1' F=17' 3=%@' F%6% 4>>1" 3%?' 4 ?' 3=% 54"?' 1."B"55"1 $65' 16' 4 @' 3F1' 16' (716%' 1$' 3=%7' 46% =%6%H@' 16?%6%?' 4 ' 6% C"6%?' -- -% 31' 24C5% 3=,' 54"?' 5%B%64' 4 ?' 6%$>%23"B(>' 55%55 7 % 3$' 31' 3=%7' ?% "B%6%?' 8F=% ' H@' 3H%>";' 4>>61B%?' 1$' 16' 43%6%?' K1 ' ' '-+' >?' 42216?" :' 31' 3=% 36C% " 3% 3' 1$' 3="5' $3 ' 31',' H% $4"6% @0F6"33% ' 4 ?' 31' (5": ' 4 ?' 524% 5%B%64 ' C> "243% Y' 16' 1>"% ' 1$' 3=%' 54"?' 55%55 7 % 3' 4.?' 1 % 1$' 3=%7' 51'J5": %?' 4 ?' 5%4 %?' $163=F"3=' 31' ?% "B%6f 16' 24C5%' 31' H%(?% "B%6%?' C 31' ' 3 N 3' ' 3=%($H21 %$3165' 4 ?(=4 ' ("<%"B"5% ?% "B%6' 16' 24C5%' 31' H:' ?% "B%6%?' 13=%6' 1>"%5' 3=%6%1$' 51' 5": %?' 4 ?' 5%4 %?' ' 1 / /$ 3' 3"4' 3=%; %4?; 1 %$3165' 4 ?' %2%"B%65' G% %64' 422216?" :' 31' 3=%"6' 5%B%64' \6%5>%$3"B%]' 21 %$3"1 5' 4 ?' 6%2%">3$ 0 - 3' ' ?' 7>$%1B%6' 3=5%' 54"?' (17"55"1 %65' 5=4 ' 24C5%' 4' 36C% 1>@' 16' ! I3$4$3' 1$' 3=% F=1 %' m"' 75' 455%55%?' 4 ?' 2=46:%?' 4 N -'W .' F"3=" ' B%6@ C ?6%?' 43=% D E"4>% 3"% M 46"5= 46?' 16' 42% 643%?' 16' 455%55%?(" ' >C65C4 2% 1_' 3=" 5' $3' 4 ?' 1_' 24C 6" 36445 6$$ 3=%' F=1 % 5C 75' 643%?' 16' 455%55%?' C>(1 ' %651 4' !5343%5' $$"2%5' 16' 7>1@7% 3$' 31' H%' 2%63"$"%?' 4 ?' 364 5 $"33%?' -' 1 ' 3.' C4' " 31' 3=%"$' 4.%53"%5' 1C63' 1\' ! I2=% C%6' C ?%6' 3=% =4 ?$' 4 ?R5%4 5' 1$' 4 @' 3F1' 16' 716%' 1$' 3=% 17 7"55"1 %65' HC3' ! I> ' F"3=1C3' "47%" : 3=%' >%651. 5" ' 5C2=f 3=%"6' %63"$"243%5(((?' 3=" 5' 3=% 54"?' 17 7"55"1 %65' 5=4 ' 24C5% >.' H% ?1 %WOc" VR;$ J r;' C>1 ' 16' H%$16% 3=% F% 3"%3=' ?4@' 1$' 462=' 3=% ' %I3% 5C" :' 16' F"3=" ' ="63@' ?4@5' 4$3%6' 84 ' 4>>%4 5' 31' 3= 7' ^ . 74?% H%" :' $"653' ?%3%6?9"" $%?' R ?' 3=% 9" :$ %7%7 H64 2%6" ' 3=% ! I2=% C%6' $16' 3=% 3"7% ' H%" :' 5=4 ' 4 ?' Y5 300 +,-' % =%>H@' 6% C"6%?' (F"3 "" ' =6%% 1 3=5' J$3%6' 3=%(?C> "243%5' 1$' 3=% 453' >4@7% 3' 5=4 ' H% 36 7"33%?' 31 =" 7' $1' E1 ' (1-:' ' ' 364 526"H%4 ' 3=% 2=%?C %5 4 ?' 'C> "243%5' 1$' 3=% 5C 75(6%3C6 %?' 31' =" 7' $61 7' R4 ?' $16' %B%6@' 6%5>%$3"B% 8H1C 3@ D " 526"H% "?" :' "3@' 4 ?' 1F>%' 4 ?' %B%6@ C ?6%?' E4>% 34<% 46"5=' ' "B"5"1 ' 1F ' 4 ?' 42% 3=%6%" ' " ' 4 11<' 1$' 3' - ' ' 4$2=75 3' " ' >=4H%3"24' 6?%6' 4 ?' " K' 4' $4"6% %:"H % 4 ?' E6"3%" :' 4 ?' F"3=" ' =6%% 1 3=5' 4$3%6' 3=% X47%' 1' 3 '1$' (A=4 ' H% 51(' H@' =" 7 (?%2%"B%?' 31' 364 57"33' 4 ' 4 ?' %B%6@' 3=%' 547% 2=%?C %5' 4 ?6' 'C> "243%5' 31' 3=% $$"2%' 1$' "':' ' ' 1 ' E6"3%6' 1$' 3=% 4 "%5' 2171 @' 24 %?' =%' " C?"316' 1$' 3=% %2%">3' 1$' 3=% ! I2=% C%6' E=1' "5 =%6%H@' "<%F"5% 4C3 16"45%?' 4 ?' 6% C"6%?' 31((% 3%6' 3=% 547% " ' 3=% "<% >=4H%3"24' 6?%6' " ' 4 13=%6' 11<' 1$' 462=7% 3' $4"6 @' F6"33% ' 31' H%%' >61B"?%?' $16' 3=43' ;>C6>15%((

2 o' .Y%' "3' $C63=%6' % 4$3%?' H@' 3=% 4C3=16"3@' 4$16%54"?' =43' 3=%(17" "541 %65' 16' 4 @' F1' 16' 716%' 1$' 3=%">' & > -' ' 6""4 .' "55C% 1C3' 3=%"6' E4664 3$' 16' ! 536%43$' 31' 3=%' CH21(%$3565(C ?%6' 3=%"6' 4 ?$ 4 ?' %4 5' 3=%6%H@' 6% C"6" :' -- /Z -' 4G ?"%7K' 31' %B@' 4 ?' 2H %$3' 2" % $1C63=' >463' 1$' 3=% 43%5 4 ?; 55%55 7 % $$" ' 6%5>%$3' 1$' 3=%"6' %651 4' ' !5343%5' $$"2%5' IG4 0 DJA4' 4 ?' 7>1@7% 3$' 4 ?' 4 51%' 1 %; $1C63=' >4 33' 1$' 3=% 1C ?' 43% 2=46:%?' C>1$' 4 4 1$5' %55C4:%5' 4 ?$' N5 +. C4 % %7% 3$' 4 ?' %6%?"34 7% 3$' 4 ?' 6%7"55%5' 45' 4$16%54"?' 6"?' 3=% 54"?' CH21 %$316%5' 46% =%6%H@' 6% C%6%?' 4 ?' I% 3 _n' ' % .1@ %?' 31' %B@' 4 ?' 213%2#' 3=% 547% 42216?" :' 31' 3=% ' C> "243%5' 3=%6%1$' H@' 3=%7' 6%2 .B%?' 4 ?' 42216?" :' M81' 3=% N5 34 3' 44 3 +' ' 1'

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" 3% 3 4 ? ?"6%$ "1 5 1$ 3="5(=;4 ? 31 74<% ?% 34 ? >$ 3=% 4"? 43%5 46"? 55%55 7 % 3$ C>1 (%651 4 !5343%5 $$"2%5 4 ?(7 > 1@ "% 3$ 1$ 3=% 463"%5 3=% 7 5% B%5 "$ 3=%@ (24 H% $1C ? 16 13= % @.5% 433 3=% > 42% 1$ 3=%"6 453 4H1?% 4 ? 3>; >4@ 54 7 % C 31 (3=%"6 6%5>%A/"B% %4? 1 %:%65 243f 16 H%$16% 3=% &"$3%% 3=; ?4@ 1$ 462=; % ((3=1C54 ? 5"I =C ?6%? " %3@ 3=6%% >6 F"3=" F% 3@ ?4@5 4$3%6 ?; 3=% 54"? %4? 1 %U1$5 (46% 31 =453% 3=% K54"? CH21" %?165 ? " 245% 3=% 54 7 % 5=4 =13 H% 21 %$3%? H@ 6%45?=; 1$ %:%$ / 16 $""" C6% 1$ C3 Y 1$ 3=% 54.? CH 1 %$3165 3=% 54"? %4? 1 >?$165 46% 31 %B@ =$ F4664 3 C ?%6 3=% =4 ?$ 4 ? 5%4 5 1$ 4 @ 3F1 16 7 16% 1$ 3=% 54"? 1 7 "55"1 %65 (H@ ?"536%55% LC>1 3=% CH21 %$31"6 6%5>%$3"B% @ 5C2=; 5C 7 (4C? 5C6%"5 1$ 7 1 %@ 45 H@ ="7 4 ? 3=% # 1C:=3 31 =.B% H%% >4"? 4 ? "5 16 46% >3 >4<3 H@ 6%451 >$ ="5 $4" C6% " ?15" :" ="5 ?C3.; 42216?" :" 31 3=% (?"6%$3" 5 1$ 3="5 $3 2%(%B%6@ %4? 1 %4? 6 "5 =%6%H@ 6% C"6%? ?81 74<% >4@ 7 % 3 1$ F="43 5=4$3 H%; 51 %B"%? 16 6%2%"B%? C 31 3=% %2%"B%6 G% %64#!1$ 3=% 54"? 1C 3@ "3@ 16 4>% C>1 16 H%$16% 3=% F% 3"%3=6;?4@ 1$ 462=; 4$16%54"? (16 F"3=" F% 3@ ?4@5 4$3%6(?; 3=% %2%"B%6 G% %64 "5K "<%F"5% 6% C"6%? 31 24 C>1 4 ? =453% 3=%(54"? %4? 1 %$ >65 4" 3$ 31 >4@ F=43 =%% 5=4 6%2%"B% $61 7 3=%; 54"? %4? 1 % _$1@5 C 31 3=%"6 4.%53"%5 %2%">3 1$ Q.22=% C%6 C>1 16 H%$16% 3=% "I 4 ;? 3F% 3"%3=; ?4@ 1$ 462=; %3=1C54 ? 5"I =C ?6%? " %3@ $1C6% 16 F"3=" F% 3@ ?4@5 4$3%6 31 3=% % ? 3=% &"653 >4@ 7 % 3 1$ 3=% 43%5 4 ? 55%55 7 % 3$ 7 "@ H@ 3=43 3"7 % H%$C @K 4 5F%6%? 4 ? >4"? " 31 3=%"6 4.%53"%5 ?(3=%(H21 %U165 5=4 4 51 %B@ 3=% %21 ? C463%6 @ >4@ 7 % 3 1$ 3=% 54"? 43%5 4 ? 55>55 7 % 3$ 2=46:%? 45 4$16%54"? C>1 >6 H%$16% $=% %21 ? ?4@ 1$ C >3=% I3 ;% 5C? :" 16 ."3=" F% 3@ ?4@5 4$3%6 4 ? 5=4 4 51% >4@ 3=% 54 7 % " 31 3=% %4? 1 % 165 C>1 ,6 H%$16% 3=% " 3=; ?4@ 1$ C % 4$16%54"? 16 F"3=" F% 3@ ?4@5 4$3%6 ? 3=% 54"? %4? 1 %? 165 5=4 7 4<% >4@ X33 3=%6%1$ 33" 3=% %2%"B %65 (G% %64 1$ 3=% 54"? 1C 3@ "3@ 16 42% C>1 16 H%$16% 3=% "I3%% 3=; ?4@ 1$ C % 4$16%54"? 16 (F"3=" B %43@ ?4@5 4$3%6 (? 3=% 54"? %2%"B%6 G% %64 "5 4 51% 6% C"6%? 31 74<% >4@ 7 % 3 1$ 4 &F="2=; =%% 5=4 51 6%2%F1" 31 =%"6("@.53"%5 %2%">3 1$1 "I>=% C%6 C>1 16 H%$16% 3=% &"B% 4 ? 3F% 3"%3=; ?4@ 1$ C % 4$16%54"? 16 F"3=" F%3@ (?4@5 4$3%6 31 3=% % ? 3=43 3=% 5%21 ? >4@ 7 % 3 1$ 3=% 43%5 4 ? 55%55 7 % 3$ 51 2=46:%? 45 4$16%54"? 7 4@ H@ 3=43 3" 7 % H% $C @ 4 5F%6%? 4 ? >4"? " 31 =7 6 4.%53"%5 (?; 3=% 54"? CH21 %$3165 46% 4 51% 6% C"6%? 43? % .1@6"%? 31 %B@ 1 % 13=%6 C463%6 @ >4@ 7 % 3 1$ 3=% 54"? 43%5 4 ? 55%55 7 % 3$ 2=46:%? 45 4$16%54"? C>1 16 H%$16% 3=% &>3C3=(?4@ 1$ %>3% 7 H%6 3=% I3 % 5C%" :" 4 ? 5=4 4 51% >4@; 3=% :47% C 31 3=%; 54"? 6%5>%?"B% %4? 1 %$316 1 >6(H%$3 % 3=% F% $3=; ?4@ 1$ %>3% 7 H%6 4$16%54"? 16 F"3=" F% 3@K ?4@5 4$3%6 ? 3=%; 54"? %4? G? %$3165 46% 31 "453% 3=%(54"? CH21 %$3165 D ? . 245% 3=% 54 7 % 5=4 13 H%(21 %_3%? H@ 6%451 1$ %:%$3 16 $4" C6% 1$?C3@" 3=% 54"? CH21 %$ 1653=% %4? 1 % 165 $46%]31 >612%%? 4:4" 53 3=% 7 H@ ?"536%55% " "<% 74 %3 4 ? H@ "<% E4664 3 45 4$14%54"? ? %B%6@ %4? 1 %$316 "5 =%6%H@ 6% C"6%? "1 74<% >4@ 7 % 3 (1$ F=43 5=4 H% 1 %B"%? (16 6%2%"B%? C 31 3=% %2%"B%6 G% %64 1$ 3=% 54"? 1C 3@ "3@ 16 42% C>1 16 H%$16% 3=% F% 3"%3=; ?4@ 1$ %>34 7 H%6 4$16%54"? 1$ F"3=" F% 3@ ?4@5 4$3%6 ?; 3=% %2%"B%6 G% %64 "5 "<%F"5% 6% C"6%? 31 24 C>1 4 ?

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X? 1 %$316;5 4 2 6B 3 -41 + CH(21 % 16 I Z '47/ B 1 N 1 2 4 1 3 B $ 3 0L 2 5 3 3I 0 22 3I 5 4 N W I%4 0 B%" " :(4 N W /%- B 4[4 D 52=46 =1 &- 2 5 E41 [/ [Z 4 4 N W

2 L "3 "5 $C63=%6 % 4$ %?4 ? ?%2 46%? H@ 3=% 4C3=16"3@ 4$16%54"? H 3 3=% 1 "%5 6%2%"B%? H@ 3=% CH21$3%$3165 F"3=" 3=%"6 6%5>% "B: "B"5"1 5 16 C ?6%?$ 5=4$ $61 7 (3" 7 % H%; ?C% @(>4"? 31 3=% %4? 1 %$3165 F=15% (%24>3 5=4 H% 4 5C$$"2"% 3 ?"52=46:% C 31 %B%6@ 5C2=; CH21 %?316 F=.>=; CH21 %$316 $2:3 :43=%6" :" 3=% 54"? (>463"2C 46 5C75 5=4 6%34" %" " ="5 (4 ?$ $16 %B%6@ F% 3@ 5=" :$ H@ =" 7 51% >4"? =6%% >% 2% 45 4 6%F46?; $16(="5 >4" 5 4 ? 5%6B"2% ?; 3=%54"?(%4? 1 %$3165 5=4 42216?" : @ >4@ 1B%6 3 .% 54"? 7 1 "%5 C 31 3=%(%2%"B%6 G% %64 1$ %42=; 1C 3@ "3@ 16 42% 6%5>% "B% @ " 7 4 %6 4 H6%54"? F="2=; %4? 1 %$316 16 1 3% 165 5=4 H% I 17" 43%? 4 ? 4>>1""$3%? H@ 3=% %2%"B%6 G% %64 1$ 3=% 6%5>%$3"B% $.HC 3"%5(F="2=; 54"? %2%"B%6 G% %64 5=4 H% 4 5F%64H % $16 4 5C2=; 5C63"5 1$; 7 1 %@ 45 5=4 H% H@ =""" (16 3=% 7 \6%2%"B%? 16 21 %? ?]; ? 3=43 1% """H21 $%?16 5=4 "% $162%? 31 364B% 4H1B% 3=% 5>42% 1, % " """%5 $?6 3=% >4@ 7 % 3 1$ 3=% 54"? 7 1 "%5 3=43 5=4 H% H@ =" 7 21 %$3%? 16 6%2%"B%? (? 3=% 54"? %2%"B%6 G% %64 5 2 C"33 4 2% 5=4 3$% 4(5C$$"2"% 3 ?"52=46:% C 31 %B%6@ 5C2=; %4? 1 %$316 ? 3=% %2%"B%6 G% %64 5=4 >4@ 3=% F=1 % 5C 7 H@ E 7 6%2%"B%? " 31 3=% %2%">$ 1$ 3=%"6 4.%53"%5 !I2=% C%6 " :"2=; ">43 7 $ >?; 433 1$ H%$16% 5C2=; ?4@5 4 ?; 6 7%5 45 ;46% =%6%" H%$16% "7 "33%? 4 ? 5=4 =4B% 463 4 1F4 2% 1$ F% >%6" % " 3=% >1C ? $16 4 0 71 ""%5 F="?; 5=4 H% H@ ="7 >4"? " 31 3=% %2%">3 1$ 3=% !I2;=% C%6 C>1 16 H%$16% 3=% 3" 7 %5 >6%$" 3="5 U (D (D D D

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2 o H% "3 $C63=%6 % 4$3%7 4 7 ?%2 46%7 K$=43 "$ 4 @ >%651 16 >%651 5 5=4 6%$C5% \ :6 %: % f] 31 >4@ 4$4@ 5C7 16 5$" 5 1$ 71 %@ F=%6%43 =% 16 3=%@ 5=4 H% 643%7 4 7 455%55%7 3=43 3=% "3 5=4 4 7 74@H% 4F$C 31 4 7 $16 3=% 54"7 1 %2 165 ?6 46"@(1$3=%7 4 7 \\=%%]?=?3=%@ 5 4 7 46% =%6%H@ 4C3=16"`%7 4 7 6% C"6%7 $16 1 >4@7% 3 3=%6%1$ 31 %B@ 3=%5C7 16 5C75 51 643%7 4 7 455%55%7 H@ ?536%55% 4 7 54% 1$3=%(3612"?$ 4 7 =433%" 5 1$5C2= >%651 51 6%$C5%"6":16 %: %U" :31 >4@ H@ ="5 16 3=%"6 G11?$16 =433%" 5 1 31 ?"5364" C>1 $ %55C4:%5 3 L 2 1 5' 5 0 ,) 1 + 4 ?$ % %7% 3$4 7 6%7355%5 51 2=46:%7 F"3=4 @(5C2= 5C7 16 5C75X 4 ?(3=% G11?$4 7 =433%" 5 3=% 4 "7 3=%6% $1C 7 4 7 3=% ?"536%55% 51 34<? 31 <%%> H@ 3=% 5>42% 1$&1C6%(?4@5 43 3=% 153$4 7 =46:$%5 1$3=% F %65 3=%6%1$4 7 "$ 3=% 54"7 F %6 ?> 13 >4@ 3=% 5C7 16 5C75 1$71 %@ 51 (643%7 4 7 455%55%7 F"3=" 3=% 5>42% 1$3=% 54"?(&1C6% '4@5 3=% 3=%(54"7 '"536%55% 31 H% 4>>64"5%7 H@ F1 16 =6%% =4H"34 3$ F=%6% 3=%(547% 1 0 22 -/3 5=4 H% 34<% 16 13=%6 5C$$"2"% 3 >%651 5 4 7 31 H% 51 7 H@ 3=% 1 %? 165 $16 3=% >4@7% 3 1$3=% 54"7 71 %@ 7 3 - 3 3 (0 \\3=%9;' B%6> C5 21"$%" :H@ 5C2=(54% 8"$4 @ H% 1B%6 4=7 4H1B% 3=% 2=46:%5 I$34<%" :4 7 <%%>" :1$3=% N 2 - - 3 ?"5$6% %31 H%"7 7%?"43%@ 6%3C6 %7 31 3=% F %6 3=%6%1$ 7 716%1B%6 "3 5=4 H% 4F$C 31';H6%4<1>% 8" 3=%(' 4@(3"7% 46"@ 1C5% 4 7 8C>1 E3C64=3 C ?%6 3=% 4 ?5 4 7 %4 5;1$ F1 16 716% 1$3=% 54"?1 7"55"1 %65 4 @ =%53(\\ 6C .] F 16 13=%6 3=" :$ (F=%6% 4 @ 5C2= G11?$46% 24 " :31 3=%"6 455"534 2% 3=% 1 534H% @3= :7%> 4 7 %4?H161C:= F"3=" 3=% 1C 3"%5 "3"%5 1 F 5 4 7 42%5 F=%6% 4 @ 6%$C54 %: %?" 16 6%5"534 2% 5=4 H% 74?% E="2= 54"7 $$"2%65 46% =%6%H 6% C"6%7 31 H% 4"?" :4 7 455"53" :" 3=% 6%7"55%5 45 3=%@ F" 4 5FU6 3=% 21 3646@ 433 3=%"6 >%6" 4 7 3=% %B%64 4 7 6%5>%$3"B% % 4 3 16 % 4 3$ 1$(4 1C5%5 46$?$ % %7% 3$ 4 7 %6%?"34>"% 3$ F="2= 5=4 H%% 643%7 H@ B"63C% 1$ 3="5 $3 46% =%6%H@ 6% C"6%7 4 7 4C3=16"`%7 3, >4@ 5C2= 5C 3 16 5C75 1$631 %@ 45 5=4 H% 643%7 C>1 5C2= 1 5%5 4..?$ % %7% 3$ 16 %6$%?"347% 3$4 7 31 ?%?C$3 1C3 ?$(3=% % 3$ 51% 7>2= 1$3=% 54"7 43%5 45 " 6%5>%$ 1$3=% 54"7 % 3$ 1$ %B%6@ 5C%= 24"5% 4 ?$ % %34%$"3$ 16 %6%?"346" % 3$ 3=% 4 ?16?5=1C 7 16 1C:=3 31 >4@4 7 H%46% 7 3=% 54"7 4 ?16?$(H13= 7%?"43% " 3 3 N - 41 34 -B 4 7 "7" %?"43% 42216?" :313=%"6 6%5>%O"B% 73%6%53$ 46% =%6%H@ 6% C"6%7 31 4 1F 5C2= ?%?C$"1 5 " >4@7% 3$.">1 3=% 6%2%">3 1$3=% 6%5"?C% 1$3=%"6 % 3$(

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>%6$167%" :3=%"6 'C3"%5 5>:=&" %16&" %5 45 H@ 3=%7 5=4 H% 3=1C:=3 ($"33 51 45 3=% (547% !12%% 13 3=% 5C7 1$(' E4 3 +
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HC3 H@ L3=% 21 5% 3 1$3=% 74.16"3@ 1$3=% 7"55"1 %65 F=1("7>15%7 3=% 547% HC3 5=4 H% %B@%7 H@ E4664 3C ?%6
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3=% 4 ?$4 7 %4 5 1$3=%(54"7 7"55"1 %6g 81 6"51 3=%6% 31 6%74" % 3" >4@7% 3 1$3=% 54"7 &" %5 ?3=43] -2 3 '
4 @"6"%5 3=43 5=4 H% "7>H5%?(H@ B"63C% 1$3="5 $3 5=4 H%%> 4"7 31 3=% 6%5>%$3"B% %2%"B%65 G% %64 4 7 H@ 4 N W 0Y
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$16 3=% 6%2%">3 1$4 @ 5C7 1$71 %@ 3=%6%H@ 31 H% 455%55%? %:%$3 16 6%$C5% 31 >4@4 @ 5C7 (16 5C75 1$ 2 5 +(+ 5
71 %@ F="2= H% H@(="7 6%2%"B%7 45 4$16%54"7 4 7 31 >4@ (3=% 547% 45 " 4 ?(H@ 3="5 $3 "5 ?" %$3%? 4 7 5=4 0 4 315 1 /
?%34" " ="5 16 3=%"6 =4 ?$(4 @ 7%"$%@ B%2%"B%7 H@ 3=%7 16 4 @ 1$3=%7 4 13 >4@3=%(547% 433 5C2= 3"7%
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92 o' =%' $3' $C63=%6' %6"4?%?' H@' 3=% C3=16"3@' 4$16%54"?' =43' 3=% 1 7 "55"1 %65' 3=43' 4 $' H%' D F'3=" ' 4 @' 1C 3@' "3@' X ' 42% F"3=" ' 3=%' 3%55>%?"B%' "7 "33$' 16' 3=% 74.16' >463 1$'(3=%7' 5=4 ' 643%' 34 I' 4 ?' 455%55' %B%6@' 13=%6' = 53"1U%6' .1@ %?' F3'3=' 3=%7' $73' 4 ?' " ' 6%5>%?' 1$' 3=% 6%4?@' 7 1 %@(' \\ ' %H3$]' G11?$' D =433% $ 4 ?' >%651 4' ! 5343%' 1$' /! 0 1 '"55"?=%65' ?' 4 51% $16' 4 ?' " ' 6%5>%?' 1$(' 3=% $$"2%5' 4 ?' ! 7 > 1@ 7 % 3$' 1$' 61$"33fF=" 2=' 433' 3=% 3C % 1$(5C2=' I4 C04$"H ' 5=4 ' H%' =%?' 4 ?' % .1@%?' H@' 5C2=' 1 7 "55"1 %65' 51' 45' 3=%' 6%5"?2$"2% 4 ?' C5""4 ' ?F% " : ' > 42% 1$' ? Q C5 %6' 51% 31' D H% 34 I %?' H% F"3=" ' 3=% ' "B"5"1 ' 1$' 5C2=' 1 7 "55"1 %65' H@' C6=1 7 (=%% "5(34 I %?' 4 ?

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1 536C%? 16 3 %3" 31 %1 7>3 4 @ ' %651 ' 16 %651 5 "3@ 1612:=; 16 1F 16>16434% 16 4 @ 1$ 3=% $1=4H"3443$ 1$ 3=% 47;% 16 " 3H% (1F%6 1$ 1 ?1 $61 7' 3=% "C63=% ' 4 ?' =46:% 1$ 4 @ 5C7' 16 5C75' 1$ 71 %@ :64 3%? H0@(3=" ?' HC3 3=43 4 ' 4 ?' %B%6@ 5C2=' %651 ' 4 ?' %651 5 "3@ 1612:=' 4 ?' 1F % 16>16434% 5=4 ' >4@ 3=%'6 ' >61>163"1 5' 1$ 4 3(43%5 4 ?' 5>% 57% 3$(H0@(3=%5' >6%5% 3 ?' "7>15%? @ 5C2=' %33%65 43% 3$ G64 3$ 16 =463%65 ' (; 16' 4 @(4C5% 1$ 1 1H534 3% 7433%6 16 3=-:' 3=%6%" 21 3#' %? 16 4 @ 4F' 343C3% C5317' 16 6%526'>3"1 ' 31' (' (3=%'?21 3646@ 13F"3=534 ?" :(' ; (7 @ o 0' 4 51%4 .'43' 1(%651 ' =4H"6" :' " ' 4 @ "3@ 1612:=' 16 1F % 1(6> 643% 5=4 ' H% 217>% %2$ 31' =%(4 @ 55%55516 16 1 %? 6 1$(16 $16 4 @ >463 1$ 3=% 43%5 4 ? 55%55 7 3$ %3@?' 4 @ 42% 16 42%5 "3%5'U2(13 1C3 1$ 3=% " 7"33$ 1$ 3=% 54"? "3@ 1612:=' 16 1F 16>1643 ((H% 53%651 66(U2 ( ) (@ o 0' 4 F4@5 4 ? H% "3 % 4?%? =43 %B%6@) 43% 41' 16 55%55 7% 3 F=";2=' 5=4 ' H% 74?% (16 "7>15%? H@ ('' I (¿ 7 B"63C% 1$ 3 3'5 ?' " ' ,5%>%? 1$;4 @ 1C5% 16 % %7% 3 F=";2=' 4 ' 7H4554?16 %5"?% 3 :% 3 16 13=%6 CH "2< 4 ? 167? 31>4@ B"63C% 1$ 3 3'5 $3' =%% 1C:=3 31' H%% 643%? ' 6 455%55%? ? 45 F% ' 4 ' 5C75 455%55%? C>, ' %B%6@ (3=% 54"? F="2=' ;H@ 3="5 $3' =%% 1C:=3 31' H%% 643%? ' 6 455%55%? ? 45 F% ' 4 ' 5C75 455%55%? C>, ' %B%6@ (3=% 54"? 1" 5'1 %6'5 4 ? 55%55165 45 3=% 55%55 7 3$ 74?% 4 ? 5%33 H@ 3=%(55%55165 4$16%54"? 5=4 ' H% F6'33% ' %536%43%? %B"%? 4 ? :43=%6%? 45(3= ' 54 7% 5=1C ? 4 ? 1C:=3'31' =4B% H%% ' "$ 5C2=' 17"55"1 %65 =4? 13 H%% ' 47%? 17"55"1 %65(' ' '

& ? % "3 $C63=%6 % 4$3%? H@ 3=% C3=16"3@ 4$16454"? =43 \]%B%$@] 4>"53 16 6%>4 3%?R 4>"53 H%" : 1$ 3=%(: %
2K 3- 1 N + AX "I3%% @%465 + ""> F46?$ F=1 5=4 13 =4B% 34<% 3=% 43=5 >% 21%? 4 ? 6% C"3%? 31 H%% (34<% H@ 3=%
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(31 H% 455%55%? % "H? 4 ? 2> %$3%? 4 5F%6%? 6%21B%6%? 4 ? >4"? " 5C2= 74 %6 H@ 5C2= F4@5 4 ? 64%4 5 (4 ?
42216?" : (H 5C2= C %5 4 ? ' "6%$3"1 5 4 ? C ?%6 5"$2= % 4 3"%5 4 ?(&16$%"3C6%5 45; 46% H%$16% " 3="5 $3 %I>6%55%?
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Q (7 @ o o %B%63=% %55% =43 "$ 4 @ 5C2= 4>"53 16 6%>C3%? 4>"53 F"3=" % ?4@5 (4$3%6 3=% $"653 %%3" : 1$
3 "1 ' 4@Y e ? 17"55"1 %64" 3=% 6%5>$3"B% 1C 3"%Y 16 42%5 F=%6% =%% 16 5=%% 1C : =3 31 H%% 34I%? 1. 455%55%? 42216?" : 31
4$3%6 %%3" : 1$ 3=% " 3% 3 1$ 3="5 >6%5% 3 $3 5=4 34<% 3=% 54"? 43=5 H%$16%(F1 16 >16% 1$ 3=% 54"? 17"55"1 %64 8F="2= 43=5
4 34<%3=% 43=5(3=% 54"? 17"55"1 %65 46% =%6%H@ ! 7>1F%6%? 31 4?7" "53%6 3=43 " (5C2= 245% =%% 16 5=%% 5=(4 13 H% ("4H % 31 H%%
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Q (((%651 5 1$ " ? C>F46?5 F=1 5=4 (=13 =4B% 34<% 3=% 43=5 H%$16% ! I%2C3"1 1$ $3 3 H%" :5C7d 71 %? 5=@" 6%$C5% 31 34<% 3=%7 16 %: %$3 31 4>>%4 H%$16% ò 164 $"55"1 %65 31 >4@ ?1CH %(
2 o =% "3 ($C63=%6 % 4$3%? H@ 3=% C3=16"3@ 4$16%54"? =43 %B%6@ %651 H%" : 1$ 3=% : % 1$(' "I3%% @%46%5 16 C>F46?$ 4 ? H%" : F"3=" 3="5 %4 7% 43$ 3=% 3"7 1$ 3=% %I%2C21 1$ 3="5 $3 F=1 5=4 13 H%$16% 3=43 3"7% =4B% 34<% 3=% 43=5 7% 21%? 4 ? 6% C"6%? 31 H%% 34<% H@ 3=% 54"? $3 3"3C %? $3 $16 3=% 4H61:43" : 1$ 3=% 43=5 1$ C."6% 742@ 4 ? %:"4 2% 4 ? (4>>1" 3" : 13=%6 43=5 ? >>1 $"71 5 H@ KE4664 3 C ?%6 (3=% 4 ? 4 ? %4 1$ 4>@ F1(16 716% 1$ 3=% 1 $"55"1 %65 4>>1" 3%? H@ 3="5 $3 5=4 6%$C5% 31 34<% 3=% 54"? 43=5 433 3=% 3"7% 4>>1" 3%? " 3=> 54"? E4664 3 (16 5=4 %: %$3 (31 4>>%46% 433 5C2= 3"7% H%$16% 3=% 17"55"1 %65("W 16?%6 31 34<% 3=% 54"? 43=5 8 B="2= 43=5 3=% 54"? 17"55"1 %65 16 4 @ F1 16 716% 1$ 3=%7 46% =%6%H@ 6% C"6%? 4 ? "7>1F%(6%? 31 4?7" "53%6 5=4 '@"% ? 4 ? >4@ C 31 =%"6 4.%53"%5 ?1CH % 3=% 5C75 4 ? 643%5 F="2= H@ $162% >6 B"63C% 1$ 4 @ 4C5% " 3="5($3 H%$16% 7% 1%? 6 21 37 %? =% 16 5=% 5=1C ? 16 13":=3 D 31(>4@ 16 (H% 2=46:%? F"3= " 74 %6 45 "5 H%$16% " 3="5 >6%5% 3($3 4>>1" 3%? 31C2= : 4>"53$(((D ((D

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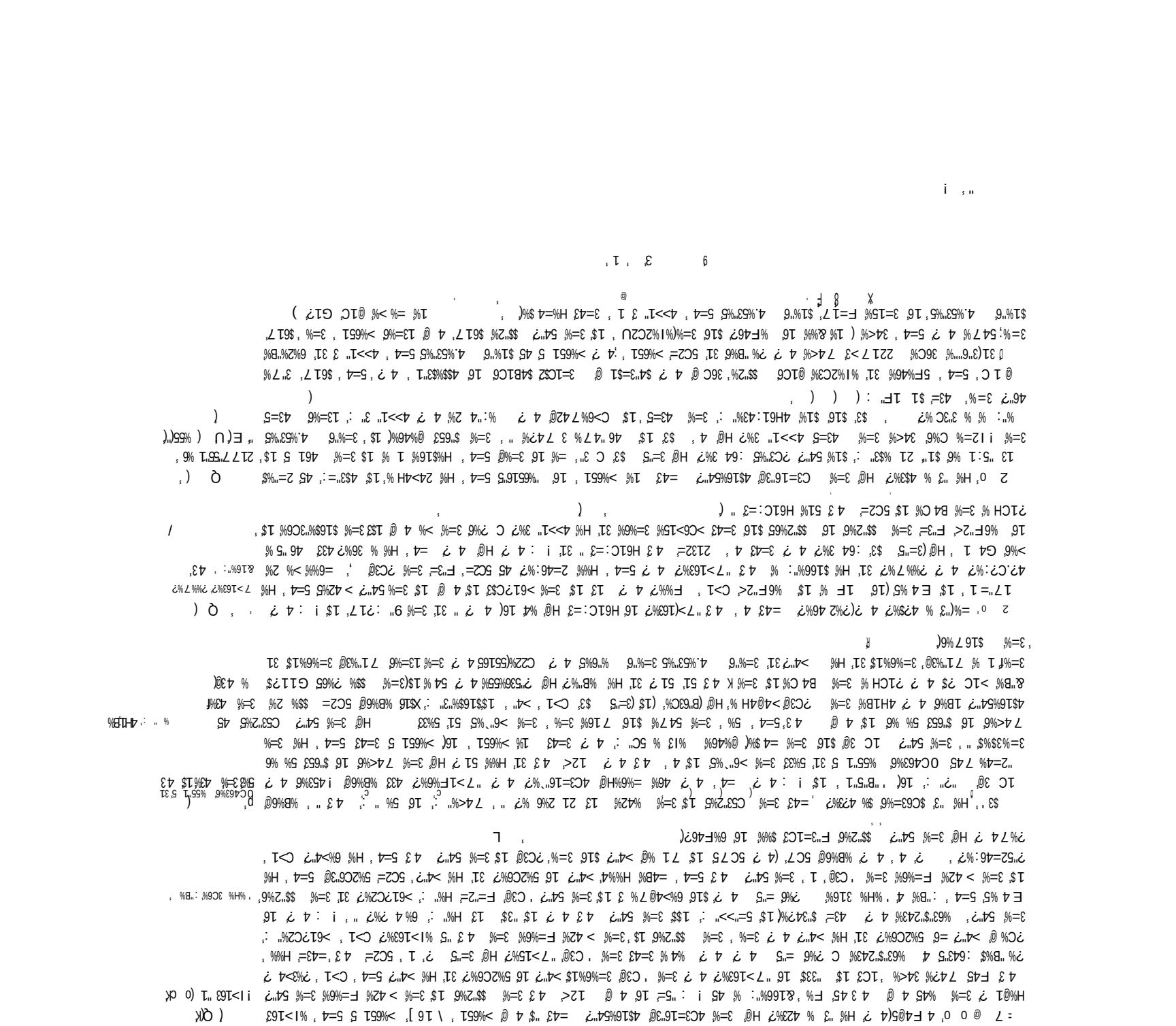

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4 1F4 2% 4 ? 4H43%7% 3 1$ ' C3@ 1 (3=% 4 3 H@' =" 7' 51% 74?% 4$3%6 3=% 64 3% >61>1621 ' 1$ F% B% >% K2% $16 (
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(=C62=F46?% ' 16' B%65%%6' 1$' 3=%' 2.16' 16' 4 @(13=%6' "@"' $$"2%6' F=1' 5=4 ' >615%2C3% C>1 ' =% 4221C ' 1$' 5" @'
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H%' 3442%?' 42216?" :' 31' 3=%' 21C65%' 1$' 3=%' 54"?' 1C63' 4 ?' 3=43' 3=%' (>615%2C316' $16' 3=% 6%21B%6@' 1$' 5C2=' 2153$' 5=4 " ' %21B%6@(1$' 1535
F"3=" ' % % ?4@5' 4$3%6' ?%74 ?' 74?%' 1$' 3=%' ?%$% ?4 3Y 4 ?' 6%$C54' 1$' >4@ % 3' 1 ' 143=' =4B%' 4 ' 43342=7% 3' :64 3%?'
4 4 53 3=%' ?%$% ?4 3' H@' 3=%' 54"?' 1C63' $16' 5C2=' ="5' 2173% 3>3' ?' 3=43' 3=%' 54"?' 6%21: "`4 2% 5=4 ' 13' H%%'
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< 7 @ o o ; 4 F4@5(4 ?' H%% "3 % 4$"%?' H@' 3=% 4C3=16"3@' 4$16%54"?' =43' " ' 4 @' 1$' 3=%' B4243"1 5' E 6"33$' 1$(% 1646" (<
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1 ';3=%' 55C?' E 6"33' 4 ?' 4 51%' 3=% 47" 1$' 5C2=' >:651 ' 433' E=,5%" 534 2% 3=$% (547% "5 :64 3%?' 4 ?' 3=43' 3=%(>463@' K 243"1 ((
16' >463"%5' $""?"$3%?' >615%2C3" :' 5C2=' %63"1646" 5=4 ' H%$16% 3=% 4 13. 4 2% 1$' 5C2=' E 6"33' 16' E 6"33$' 1$' %63"1646" '
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3=% "55C% .1@ %?' C>1 ' 3=%' 54"?' ?"?37% 3$' 16' 6%5% 37% 3$' 31' H%%' 32@%?' 433' 3."% %I3' 5" `%5' 16' :% %64' G15 '
' % "B%6@' D 31' H%(=% ?' $16' 3=% 54"?' (6%5>%U"B1' 1C 3"%5' 4 ?' 5=4 ' :"B% "<% 13"2% 31' 3=%' >615%2 3>6 4 ?' "$' @"$3%?' (
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4 @' >%651 ' 16' >%651 5$16' 16' 6%>4""%" :' 1$' 4 @' ":= F4@5' 4F5"%5' 4B%7% 3$' 76' 6"?:%5' 4 ?' 3=%' 6":=3' 16' 3"3 % 4"6"H:' '
31' 6%>4"6% 3=%' 5.$3=% 74@' 17% " ' C%53"1 ' C>1 ' 5C2=' 5C::%53"1 ' 4 ?' 4$$"?4B"3' 74?% 1$' 3=%' 36C3=' 3=%6%1$' 4' %63"1646"
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D H@' >463@ 4:4" 53' >463@" ' ' 3=% 6%5>%?"B%' 1C63$' 1$' 4F' 433' E%53:"" 53%6' 4 ?' C>1 '.C?:%7% 3' % 36%?;4:6">53'
(3=%' ?%$% ?4 3' 1 6;b %$1 ?4 3$" ' ' 5C2=' 5C"3$' 16' 4?"1 5' 3=% 6%5>%?"B%' (1C"53$' 4$16%5<"?' ?1% 8%I (1$$"2"1 ' "55C% 1C3'
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7153' %I2% % 3' 4.%53"%5' H..4 ?' F"3=' 3=%(4?B"2% 4 ?' 21 5% 3>$3=%' 16?$' 5>"6"3C4' 4 ?' 3%7>164' 4 ?' 3=% 171 5' " '
3" 5' >6%5% 3' 46 "47% 3' 455%7H%?' 4>?' H@' 3=% 4C3=16"3@' 1$' 3=% 47% =43' $617' 8.3=% 2%$163=']' =1% E 6"33' 16' E 6"33$' 4>"452 '&" %
2171 @' 24 %?' 4..45' D >61&" % " ' 4 @' 1$' 3=%' 54"?' 5C"3$' m6' 4?"1 5' " ' 4 @' 1$' 3=C' 54"?' 1C63$'5=4 ' H%%' 5C%?' 1>3
(16' >615%2C3%?' 4:4" 53' 4 @' 1$' 3=%' 54"?' ?%$% ?4 3' 13' ?%$% ?4 3$' 16' 4 @' \13=%6]' >61>%55% 3=%6%C>1 ' HC<3=%' 547% $" %5
4 ?' 4 ' $1677%6' $" %5' @ 3' C >4"?' 46% 4 ?' 5 E ' =%6%H@' H%(' 6%7"33%?' 4 ?' ?"52=46:%?' $16' %B%6' %3' %B%63=% $%55% 3=%
> 4" 3"$$(16' :4"=3"$$ $ 7' K%B%6@' 5C2=' 4?"1 ' 5=4 ' 8C>1 ' 5": %" :' .C?:%7% 3' 3=%6%" ' 1B%(6 4 ?' 4H1B% 3=%' 5C4' &%%5'
$16' 5": %" :' 3=%6%1$' >4@' 31' 3=% >61>%6' .$$"2%6' (E=1' 5": %3=' 3=% 547% 3=%' 5C7' 1$' "I' (5=" " :$' 4 ?' %":=3' >% 2%
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1F' 4.%53"%5 %": % % 3"3C %?' ' $3' $16' ?%2 46%" :' 3=% """": =3$' 4 ?("H%63"%5' 1$' 3=% ' CH.%$3' 4 ?' 5%33 " :' (3=%
5C22%55"1 ' 1$' 3=% 61E %"3 F45 % 4$3%?' =43 $617 4 ?' 4$3%6 3=43 %55"1 ' 1$' 46 "47% 3 1% ?"5>%>543"1 ' H@' 1 ' 1$2534 3$%(
1$' 16' 31' 4 @' 343C3% 16' 4 @ >463 3=%6%1$ 5=1C ?' H%4' 4 1F%?H 3 3=43 3=%' 547% 5=1C ?' H%% =% ?' B1"?' 4 ?' 1$ >%' %$$%$3/
F=%6%H@ ?"B%65% *$ 3=%"6 4.%53"%5 CH.%3' 46%' 6% ?6%?' %55% 24>4H % 1$' 3=%"6 4.%53"%5 7%62@ 3=% ' H% 6%' "3 H%%" :'
B%6@ ?"$$"2C 3 "$' 13 "7">155"H % 31' $1 ?' 5"I' 5CH534 3'4 '>$351 5' F=1' F" ' 4?B% 3C6% 31' H%% H1C ?' $16' 3=% :11?' H%=4B"1C6'
1$' 4 @(:%651 ' %%?" :' 4 >;4@?H ?C6%" :' =$%("$%(%%K"3(3=%6%$16% % 4$3%?' "@ 3=% 9" :' 4 ? 0C%% 5' 7153 %I2% % 3
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6%>F%? ' 4>?' H@' 3=%' 4C3=16"3@ 1$' 3=% 5 64% =43' 3=% 54"?' $3' 74?%" ' 3=% % 3=' @%46% 1$' 9" :' !?F46?' 3=%
' ="6? 4 ?' %B%6@ 463"2 % 31?' 4C5% 3=%6%" ' 5=4 ' H%%(4 ? 46% 6%>%4 %?' 4 ?' 4 C %?' 4 ?' 46% =%6%H@(?%2 46%?' 31'
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(8' 7 @) o' %B%63=% %55% 4 ?' H%% "3 % 4$3%?' H@' 3=% 4C$116"3..' 4$?6%54"?' =43 "$' 4 @' =463%6 1$' 46?1 ' H%%' > %4?%?'
%65> 4$?1 %?' H@' 4 @ >%651 ' $16' 4 @ 9% 1>@ 3=% ' C53"2%5' H%$16% F=17' 5C2=' 46?1 5=4 ' H%%' > %4?%?' ">4@' 433 3=%"6' ?"526%3"1 '
%B% '&% 7%' 1B%635' (4 ?' $4 35'31' :"B% 6%74 ?' 16' 217"33 5C2=' >%651 ' 31' >6"51 ' 3=%6% 31' 6%74" % C 3"' =%% 16' 5=%% 5=4 ' % 3%6'" 31' 4' 6%21: "`4 2% F3='
%=4B"1C6'$16' %B% ' 3F1' 5C$$"2"% 3 5C6%3"%5 $16' ="5 16' =%6(H%" :' 1$' 3=% :11?' H%=4B"1C6 ' $16' 4 @' 3"7% 13 %I2%%?" :' 5%B% ' @%46%5(
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74@' $" ?' $F1' 5C$$"2"% 3 5C6%3"%5 F=1' 5=4 ' % 3%6" 31' 4' 6%21: "`4 2% $16' ="7' 16' =%6 H%" :' 1$(' 3=% :11?' H%=4B"1C6'
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' $'0 '4' ' ' 2 ' 2 & ' $16' 64"5%" :' 71 %@' H@' 4' 1 ' >4@4H % C463%6 @' $16' >"% @%46% $16' 2466@" :' 1 ' 4' B":161C5' E4 ' 4:4" 53
' ' ' ' ' 64 b"% ((('

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E !!' @1C6' 4.%6%3": ' 7153' ?C3"$C' 4 ?' 1@4' CH.%O/ ' 3=% 17 71 5' " ' 46 "47% 3' 455%7H%?' 0=4B" :' % 36%?'
" 31' 4' 5%6"1C5' 21 5"?%643"1 ' 1$' 3=% :6%43 4 ?' %I36416?" 46@' %I>% 2%5' . ' F="2=' @1C6' 4.%53"%5' 46%' % :4:%?'
$16' 3=% %2%5546@ ?%$% _%K 1$' @1C6' %4 %5' 4 ?' 3=%' B":161C5' 2466@" :' 1>' 3=%' E4/6' 4:4" 53' &64 2%' 4 ?' H%" :'
?%5"61C5' 31' 64"5%R "?$' ""?' C>> "%5 >61>163"1 4H% 31' 3=% :6%43 %5 % 1$' 3=% 12245"1 5' ??% 7153' =C7H@' 8"6 5% 3 3,'
@1C6'(4.%53"%5 4('$6%% : "$3 1$' 3=% 5%B%64'(5C75' 1$' 71 %@' =%6%" '4$3%6' 5>%2"$"%?' H%5%%2=" :' @1C6' 4.%53"%5' 3=43
"3 74@' H%%' % 4$3%?(' ?' H%%' "3 % 4$3%?' H@' 3=%' 9" :' 4 ?' 0C%% 5' 7153' %I2% % 3 4.%53"%5' H@4 ?' F"3=' 3=% ?B"2%
4 ?' 21 5% 3 1$' 3=%F 16?$' >"6"3C4' 4 ?' %7>164' 4 ?' 171 5' " ('3="5 >6%5% 3 46 "47% 3 45 7H% ' ?' H@' 4C3=16"3@'
64 3 1$'-5(1$' 3=%' 547 =43 4 ' 4 ?' %B%6@ >%651 4 ?' >%651 5' 1$ZF=43 4:%' 5%I' 16' 133?"3H ' 5H% %3 F"3=" ' 3 "5 9" :?17' 1$'
>4@4 % 0C463%6 @' ! :4 ?' '17" "1 ' 1$' E4%5' 4 ?' 1F %' 1$' %6F"2<' C>1 ' F%%?' 5=4 ' >4@' C 31' 3=%"6 4.%53"%5' 3=% 5C75' =%6%4$3%6'
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$2C6%' 3=% YC7' 1$ %' 5=" " :' H ' 3=% !"653' ?4@' 1$' %>3%7H%6' %' 3=1C54 ?' 5"I' =C ?6%?' " %3@' $?C6%' 3=% - ' 1$'
61B"51'$ $6' 75 7% '4 ?'3=%"6' ="?6% '= ?%6),((% 5= "6":' 1=' 3=% &"653' ?4@' 1$' '%2%7H%6 ' %' 3=1C5 ?' 5"I' =C ?6%?' " %3@' $1C6%'3=%' 5'< '1$' %' 5=" " :'(1 '
&16' 11f6 1C5 %' 3=% &"653' ?4@' 1$' 462=' %' 3=1C54 ?' 5"I?=C ?6%?' " %3@' ($1C6% 8%I2%>3' 5C2=' >%651 5' 45' 5=4 ' 6%2%"B% 3 5' 1$' $=%'
<%%>%65'4 ?'3=%"6 46"5=' 3B=%6% 3=%@' ?F% ' 4 ?' 3=%"6 =" ?6% ' H%" :' ?%6 3=% 4:%' 1$' "I3%% ' @%46%5(433 3 "%(3"7%' 1$' 3=% %I%2C3"1"$'
' ="?6% 'C ?%6),((1$' 3="5 $3' ?' (%I2%>3'04 ' 116' 1C5%<%%>%65' 16' 1C5%=1 ?%65' F=1' H@' 6%451 ' 1$' 3=%"6 1B%63@ 1 % @'046%'
&16' =" ?6% ' MC""?%V)4F 1$" '4@' %I%7>3%?' $617' 21 36"HC3" :' 31' 3=% =C62=' 4 ?' 116 4 ?' 3=$36' =" ?6% ' H%" :' C ?%6 3=% 4:%'1$' "I3%% ' @%4645'
4H1C6%65(. +4 51% %I1%>3 4 ' 3=" ?6% ' H%" :' C ?%6' 3=% 4:%' 1$' "I3%% ' @%46%5' 1$'(4 ' '4@' 4H1C6%65'4 ?' 1$' 4 ' ,6@4W3$' 7'
&16' =" ?6% ' C ?%6) ,. ,$2%634" ' 13=%6' C5H4 ?6@' ?' 451% %I2%>3' 4 ' =" ?6% ' C ?%6' 3=% 4:%' >$' "I3%% ' @%46%5' 1$'(5C2=' F=1' =4B% &1C6%' 16' 716%'
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" 5C2= 74 %6 4 ? $16 7% 45 31 3=%7 5=4 5%% 7 %I>%?"% 3 4."? 5=4 ?"6%$3 3=%"6 5%B%64 1$(.1" 3 >6%2%>3 16 >6%2%>3$ 31 5C2= =4H"34 3$ ":= 1 534H %5 %33@ 1 534H %5 4@ "$$$ 4 ? 13=%6 5C2= "<% $$"2%65 4 ? " "53%65 4 ? 5C2= C7H%6 1$ 3=%7 45 3=%@ 4 3=%"6 ?"526%3"1 5 5=4 3=" < 7153 21 B% "% 3 31 H%% 6%5% 3%65 4 ? 55%55165 6% C"6%" :3=%7 31 4>>%46% H%$16% 3=% 54"? GH7"55"1 %65 433 5C2= 3"7% \U J] >4?%% 45 3=>@ 5=4 4>>1" 3 $3 %I2%%?" :!":=3 ?4@5 ? 433 5C2= 3=%"6 4>>%46" :3=% 54"? 17 7"55"1 %65 16 51% 74 @ 1$ 3=%7 45 (5=4 H%% 3=%6%C 31 4>>1" 3%? 5=4 1>% @ 6%4? 16 24C5% 31 H% 6%4? C "31 3=%7 3=% 43%5 " 3="5 $3 7% 3"1 %? 4 ? 1>% @ ?%2 46% 3=% !$$%3 1$ 3=%"6 2=46:% C 31 3=%7 4 ? =1F 4 ? $ F=43 74 %6 3=%@ 1C:=3 4 ? 5=1C ? 74<% 3=%"6 %63"$"243%5 42216?" :31 3=%(43%5 4$16%54"? 4 ? 5=4 3=% 4 ? 3=%6% >6%$"I 4 13=%6 ?4@ 31 3=% 54"? >%651 5 31 4>>%46% H%$16% 3=% 54"? 17 7"55"1 %65 4 ?H6" : " 3=%"6 %63"$"243%5 1$ 3=% 4 "%5 4 ? 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F<=4 3=% 46"5=16 42% H@ F=17 3=%@ 5=4 H%% %7>1@%? 5=4 H%% 4 5F%64H % F="2= %63"$"243%5 4 ? 55%55 7 % 3$ 5=4 =%%(452%634" %? 4 ? 6%3C6 %? " 31 3=% 17 31<5"1 %35f 433 16 H%$16% 3=% !":=3%% 3= ?4@ 1$ 4@ %3=1C54 ? Q =C ?6%? " %3@ $HC6% 4 ? C>1 3=% ?% "B%6@ 16 6%3C6 " :" $ 5C2= %63"$"243%5 16 355%Y5 7 % 3$ C 31 3=%5 4"? G1 $"55"1 %65 3=%@ 16 4 @ 3F1 16 7 6% 1$ 3=%7 5=4 $163=F"3= "55C% 1C3 4 ? ?% "B%6 3=43(E4664 3$ 1$!536%43$ 31(5C2= 1 %$3165 45 4$16%54"? $16 3=% 5>%%?@ 21 %$3" :4 ? %B@" :1$ 3=% 54"? 55%55 7 %3f 4 ? 4 ' 71 "%5 4 ? 43%5 ?C% 3=%6%C>1 42216?" :31 3=% " 3% 3 4 ? ?"6%$3"1 5 1$ 3="5 $3 1$ 4 F="2= 3=%' 54"? > %$3165 46% %6%H@ 6% C"6%? 31 $""4<% ?%74 ? 1$ 3=% 463"%5 3=%75% B%5 6 433 3=% 42%5 1$ 3=%"6 453 H1?% F"3=" "I ?4@5 4$3%6 3=% 6%2%">3 1$ 5C2= E4664 3$ 16(!536%43$; 4 ? 31 %B@ 4 ?>4@ " 43$ 5C2= > 42% 45(3=% 17 7"55"1 %65 5=4 4>>1" 3 C 31 3=% 6%5>%$3"B% %2%"B%6 G% %64 =" 5 '%>C3@ 1$ '%>C3@%5 3=% C75 >4@4H % $16 3=% $"653 1$ 3=%' 54"?' 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1 %$316' E=1' "5' =%6%H@' 3=%6%C 31' 4C3=16"`%?' 4 ?' 6% C"6%? ' $16' 1 ' >4@' E% 3' 3=%6%1$' 31' ?"5"64" % 3=%' : 11?$' 16'
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16' %: %$3 31' >4@' 3=%' 5"" 7' 16' 5C 75' 455%55%? H@' 3=%(' 5>42%' 1$' % ' ?4@5' 4$3%6' ?%7 4 ?' 45 4$16%54"?' F=%6%' 1%' 5C2=#
' 5C$$"2"%' 3' ?"536%55%' 24 ' 16' 74@' H%%' $1C ?' (F=%6%H@' 3=>' 547%' 74@' H%%' %B"%?' " ' %B%6@' 5C2= 245%' =6%% ' 1$' 3=%'
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3=%"6' =4 ?$' 4 ?' 5%4 %5' 31' 217 E"33' 5C2=' >%651 ' 16' >%651 5' 31' 3=%' 171.1 ' G14 ' 3=%6%' 31' H%?' <%>3' F"3=1C3 4"' '
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2 o' F=%6%45 B 3=' 3=% 1C 3@ 1$ (16 F4 ' 3=%6% 46% 5%B%64 ' % % 7 % 3$ H% 1 :" :'(31' 3=% 54"? '<$K 574 ' B4 C% 51% 3=43 3=% 2=46:% 1$ >455%" :' %33%65 43% 3$ C ?%6 3=% 6%43% 4 % 16' %45%5 C ?%6 3=% 4 % 1$ 3=% i12=% C%6 4 ? G64 3$ H@' 1>"% 1$ 1C63 1 ' 74@ ?'5 2'C64:% 3=% % 4 3$'$617' 6% %F" :' 51% 1$3% ' 45' 13=%6F"5% 3=@% FIC ? ?1% %("3 $C63=%6 % 4?$%?' H@ 3=% 4C3=16"3@ 4$1%6%54"? 3=43 3=% F=1 ' &%%5 6% F46?4 ? 2=46:%5 31' H% >4"? 6%2%?B% 16 34<% $16 3=% >6%<%46%" :' F6"3%" :' ?64F%7 ;'1H34" %" :' 74<%" :' >455%" :' 1$.%6$%?3" :' 1$ 4 @ 5C2=' %45% 16 8 64 $(4 ? $16 %B%6@ 13=%6 >%3" >%?1 ' 4 5F%6% 6%$%6% 2% 6%>163% >463"2C 46 (%63"$"243' 1 3642?3 E4664 3 61 7% 3 4 ? i 36@'3=%6%1$(4 ? $16 %B%6@ 13=%6 74336% 4 ? 3=" :' 6% 43%" :' 3=%6%C 31' 16' 31C2=" :'K1$ 21 2%6 %" :' 1H37 %" :' >455%" :' 4 ?(>%6$%?" :' 4 @ %45% 16' G64 3 1$ 5C2=' 574 ' % % 7 %".3$ " ' 3=% 54"? 1C 3@' 1$ 16 F4 ' 8 F=%6% 3 % &" %' 16 4 C% 1$ 5C2=' %45% 16' G64 3 31' H% 74?% 1$' 6% %F%? 5=4 ' 13 %!2%%?% .=%' 5C7% ' 1$ (!"=:=3@' >1C ?$ ' 5=4 '(13 %! %??% 3=% 5C7>' 1$ % % >1C ?$ $16' %B%6@ %45% 4 ? 1F%6 >1C ?$ $1E %B%6@ 1>"% 81B%6 4 ? H%5 "?%5 3=% 54?' i" % 16' 4 C% ' 3=% 54"? 6%5>%?3"B% 5C7%5' 13 %!2>%?"=:' % %(>1C ?$K 4 ? &1C6 >1C ?$ 31' H% >4"? ?"536"HC3?' 4 ? ?'B"?%?' C 31' 4 ? 471 :53 3=% 5%B%64 ' 4 ? 6%5>%?3"B% $$"2%65 4 ? %6<$ 1$' % 1C65 4 ? 4 %65 1$ 3=% 54"? 1C6@ $1 2%6"'"%?' 1@%?' " ' $=% F46?$' 1$ 3=% 54"? 1C6@ $1 2%6"'"%?' 1@%?' " ' $=% F46?$' 1$ 3=% 54"? 1C6@ $1 2%6"'"%?' 1@%?' " ' $=%

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<2 0' H% "3 $C63=%6 ' %=4$3%? H@ '3=% 4C3=16"3@ 4$16%54"? =43 3=% 54"? 5%B%64 ' 643%5 ?>3@%5 4 ? 5C7%5 1$' 71 %@ =%6%" ' H%$16% 7% 3"1 %? 4 ? =%6%HG "7>15%? C>1 ' 3=% C 4:% 1$ ="'>5' 16' %55% $ 5=4 ' H% 4221C 3%? 34<% ' 4 ? >4"? 422167" :' 3 ' 3=% 7%45C6% 1$ 5C2=" = >>5 ?6 %55% $ F=<2< 5=4 ' H% 74?% 43"?' 34<% ' H@ $=%"%$% 4.%53"%5 3=% 1% 5=4 ' >4@ 3% ' :$ %" 5=" " 5C2=" @ % CHH%6 E =4 % &" 5 ?6(4 @ 3=%6 %62=4 ?"`% $617' $%62%6 ' " ' 3=%6 %6>%?"B% 163$ 16' 42%5((F=%6%' 3=%6 5=4 ' 466"B% 4 ? 3=43 3=% 453%6' 1$ F %65' 16' &6%":=3%65 ' 1$ 4 ' 5C2=" ="'>5' 16 %55% $ "7>15" :' G11?$ F46?$ 16 2466@" (:' G11?$(1453F"5% 45 4$16%54"? 5=4 ' C>1 ' %B%6@ 466"B4 # 1$ @ 5C2=(="'>5' 16 %55% $ 433 3=% 54"? \ ?7>4" %5] ="'>5' 4 ? (1" 'H% 1H ":%? 31' >4@' 42216?" :' 31' 3=% 5=">>" :' @ 3=" :' =%6%" ' 21 34" %? 31' 3=% 21 3646@ 13F"3=534 ?" :' 3=% C531 7%=1C5% 1$ 16 H% 1 :" :' 31 5>7=" 163 16 42% 4 ? 433 3=% 7 % 1$ 5C2< % 36@ 4 ? H%$16%(43@ G11?$ 16 %62=4 ?"`%5 5=4 ' H%(C 42% ' 1C3 1$ 4>@ 5C2=" ="'>5' 16 %55% $ 5=4 ' %"3=%6 >4@ ?1F 1' " ' 6%42?@ 71 %@ 3=% 3=%"%6 4.%53"%5 $$"?%65 1$ 3=% 531 7%5 " ' 5C2=" 163 16 42% $1@ 3=% C5% 1$ #3=%"6% 4.%53"%5 3=%($4"? ?C3"%5 4 ?(5C 7%5 1$ 71 %@ ?C% 4 ? >4@4H %'$1@ 3=% 1 4:% 1$ 4 ' 5C2=" ==L>5 16' %55% $ 16' % 5% 5=4 ' :"B% :11?' "? 5C$"?,% 3 5%2C6"3@% H@' 1 ?' $1' 3=%"6% 4.%53"%5 F"3=" 5C6%"%5 31' H%(4>%61B ' H@ $=% 54"? $$"?%65 1$ 3=% C53164%5 ' 31' >4@ 3=%(54"? ?C3"%5 4 ? 5C7%5 31' 3=%"6% 4.%53"%5 C5% F"3=" '' 3=% 5>42% 1$ 1 % 71 3=' %13 43$%6 3=%' 2 %46%" :' 1$(3=% =">>5' :' ?' F=%6%' 3=% ?C%"%5 (5=4 ' H% >4"? ?1F % 3=% 463"%5 >4@" :' 3=%' 54 7%" $= $3(=4B%' 4 ' 4 1F4 2% H@ F4@ 1$ 6%H43% 1$?%?C221 ' 1C3 1$ 3=% 54 7% 43$%6 3=% 643% 1$ % ' >1C ?$ >%6 % 3C7' >%6 C $1@ %B%6@ =C ?6%? >1C ?$ F="2=' 5C2=" ?C3"%5 51% >4"? ?1BB % 5=4 ' 4 71C 3 ' C 31' D' ' 245% 4 @ G11?$ E46%5 >4@4H % $1@ 5CC2=" ="'>5' 16 %55% $f' 5 4 ? %55% $ "7>163" :' G11?$ 5CC2=" ="'>5' 16 %55% $("7>163" :' 6 ?C3"%5 16 5C7%5 1$ 71 %@ H%$16% 7% 3"1 %? ?C%" 16 >4@4H % $1@ 3=% C 4:% K1$ 5C2=" ="'>5' 16 %55% $("7>163" :' 6 2466@" :' G11?$ 21453F"5% 45 4$16%54"? 5=4 ' H% >4"?' ?1F % 16' 5%2C6"? 45 4$16%54"?' =43 3=% ' %B%6@ 5C2=" ="'>5' 6W %55% ' 1C3 1$ F=2=' 4 @' 5C2= 113?$ 16' %62=4 ?"`%5 5=4 ' H% > 42% ' H%$16% >4@7% 3 7 74?% 16' 5%2C6"3@ :"B% ' 16 3=% 54"? ?C3"%5 31:%3=% F"3=' 3=% GC 5 42< % ' 7 7C "21 ' 4 ? >>46% ' 1$' 3=% 54 7% 5=4 H% $16%"3%? 4 ? 153 1 % 71"%3@ 1$ F="2=' $16%"3C6%5 5=4 ' H% 31' 3=%"6% 4.%53"%5 3.."6% %"6%5 4 ? C22%551651 4 ? 3=% 13=%6 @

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$617' 3=% 4 46"%5 4?%64;5 ?6 4 @ 3=% E%53%6 % 5 4 ?$ 3=% 5C7%(1$ % ' 5=" "=:$ (
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$617' 4 @ 163$ 16' 42%5 " ' G%% 4 ? C521B"4 16' C55"4' 3=% 5C7 1$ % ' 5=" " :$
; &16 %B%6@ C ' 1$ 3=% HC63=% ' 16 21 3% 3$ 1$ 4 @ ="'>5' 16(%55% ' C5%? 1$ "34> 1@%? " ' 3=% 1453" :' 64?%
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$617' 163 31' 163 " ' i :4 ? E4 %5 16' %6F"2<% C>1 ' F%%?% 3=% 5'.7% 1$ "1' >% 2%f
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4 ? >4"? 422167" :' 3 ' 3=% 7%45C6% 1$ 5C2=" = >>5 ?6 %55% $ F=<2< 5=4 ' H% 74?% 43"?' 34<% ' H@ $=%"%$% 4.%53"%5
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1$ 4 ' 5C2=" ="'>5' 16 %55% $ "7>15" :' G11?$ F46?$ 16 2466@" (:' G11?$(1453F"5% 45 4$16%54"? 5=4 ' C>1 '
%B%6@ 466"B4 # 1$ @ 5C2=(="'>5' 16 %55% $ 433 3=% 54"? \ ?7>4" %5] ="'>5' 4 ? (1" 'H% 1H ":%? 31' >4@' 42216?" :' 31'
16' E4 %5 16(433 3=% 8(" 163 1$ %6F"2.2%5(24C5%(4 ? >6126C6% (5C2=" ="'>5' 16' %55% $ 31'H% % 3%6%?" " '
3=% C531 7%=1C5% 1$ 16 H% 1 :" :' 31 5>7=" 163 16 42% 4 ? 433 3=% 7 % 1$ 5C2< % 36@ 4 ? H%$16%(43@ G11?$
16' %62=4 ?"`%5 5=4 ' H%(C 42% ' 1C3 1$ 4>@ 5C2=" ="'>5' 16' %55% $ 5=4 ' %"3=%6 >4@' ?1F 1' " ' 6%42?@ 71 %@ 3=%
3=%"%6 4.%53"%5 $$"?%65 1$ 3=% 531 7%5 " ' 5C2=" 163 16 42% $1@ 3=% C5% 1$ #3=%"6% 4.%53"%5 3=%($4"? ?C3"%5
4 ?(5C 7%5 1$ 71 %@ ?C% 4 ? >4@4H %'$1@ 3=% 1 4:% 1$ 4 ' 5C2=" ==L>5 16' %55% $ 16' % 5% 5=4 ' :"B% :11?' "?
5C$$"?,% 3 5%2C6"3@% H@' 1 ?' $1' 3=%"6% 4.%53"%5 F"3=" 5C6%"%5 31' H%(4>%61B ' H@ $=% 54"? $$"?%65 1$ 3=% C53164%5 '
31' >4@ 3=%(54"? ?C3"%5 4 ? 5C7%5 31' 3=%"6% 4.%53"%5 C5% F"3=" '' 3=% 5>42% 1$ 1 % 71 3=' %13 43$%6 3=%' 2 %46%" :'
1$(3=% ="'>5' :' ?' F=%6%' 3=% ?C%"%5 (5=4 ' H% >4"?' ?1F % 3=% 463"%5 >4@" :' 3=%' 54 7%" $= $3(=4B%' 4 '
4 1F4 2% H@ F4@ 1$ 6%H43% 1$?%?C221 ' 1C3 1$ 3=% 54 7% 43$%6 3=% 643% 1$ % ' >1C ?$ >%6 % 3C7' >%6 C
$1@ %B%6@ =C ?6%? >1C ?$ F="2=' 5C2=" ?C3"%5 51% >4"?' ?1BB % 5=4 ' 4 71C 3 ' C 31' D' ' 245% 4 @ G11?$ E46%5
>4@4H % $1@ 5CC2=" ="'>5' 16 %55% $f' 5 4 ? %55% $("7>163" :' G11?$ 5CC2=" ="'>5' 16 %55% $("7>163" :' 6 ?C3"%5
16 5C7%5 1$ 71 %@ H%$16% 7% 3"1 %? ?C%" 16 >4@4H % $1@ 3=% C 4:% K1$ 5C2=" ="'>5' 16 %55% $("7>163" :' 6
2466@" :' G11?$ 21453F"5% 45 4$16%54"? 5=4 ' H% >4"?' ?1F % 16' 5%2C6"? 45 4$16%54"?' =43 3=% ' %B%6@ 5C2=" ="'>5'
6W %55% ' 1C3 1$ F=2=' 4 @' 5C2= 113?$ 16' %62=4 ?"`%5 5=4 ' H% > 42% ' H%$16% >4@7% 3 7 74?% 16' 5%2C6"3@ :"B% '
16 3=% 54"? ?C3"%5 31:%3=% F"3=' 3=% GC 5 42< % ' 7 7C "21 ' 4 ? >>46% ' 1$' 3=% 54 7% 5=4 H% $16%"3%? 4 ?
153 1 % 71"%3@ 1$ F="2=' $16%"3C6%5 5=4 ' H% 31' 3=%"6% 4.%53"%5 3.."6% %"6%5 4 ? C22%551651 4 ? 3=% 13=%6 @

7 @ o o' . F4"%5 4 ? H% "3 % 4$3%? H@ 3=% 4C3=16"3@ 4$16%54"? ="3 3="5 $3 >6 4 @ 3=" :' 3=%6%" ' 21 3%" %? 5=4 ' 6"13 %I3% ?'31 2=46:% 16 4@ 4 @ 'C3@ C>1 ' 4 @ 46:% %7>1@%? "? 2466@" :' 4" ? "7% 16 43% 531 % $61 7' 163 31 163(F"3=" ' 3=% 9" :?17 % 1$! : 4 ? 4 ? '17" "1 ' 1$ E4 %5 $16 16 " ' 6%5>%$3 1$ 4 @ 5C2=' 4?%" :' 1 @f @ 3=" :' =%6%" ' H%$16% 21 34" %? 31 3=% 21 3646@ " ' 4 @ F"5% 13F"3=534 ?" :

(1B"51'$16 4 ?' *$2($61 7' A 163 31 163('(

2 o' =% "3 $C63=%6 % 4$3%? 4 ? ?%2 46%?' =43 4 ' =">>5 4 ? %55% $ "7>163" :' G11?$ 4 ?(%62=4 ?"`% $61 7' &16%": ' >463$ 45 F% ' 45 4 1453" :' %55% $ "4H % 31 3=? >4@7% 3 1$ 3=% 'C3@%5 1$ C 4:% H@ 3="5 $3 "7>15%?' 5=4 ' H% :4C:%? 4 ? 7%45C6%? 42216?" :' 31 3=% 6C % >6" 3%? F"3=' 3=% 11<% 1$ 43%5 >CH "5=%? " ' 3=% @?46% % 3=1C54 ? 5"I' =C ?6%? 5%4B% 3@ 1 % 83=43 "5 31 54@' %B%6@ 5" : % ?%$<;? =">>' 16 %55% ' 5=4 ' H% 7%45C6%?' H@ 3=% 3>= 1$ 3=% 9%% % 34<% ' F"3=" ' H146? 851% 7C2=' 45 5=% 36%4?$ C>1 ' 3=% G61C ? ' 4 ? 3=% H6%4?3=' 31 H% 34<% ' F"3=" ' H146? H@ 3=% "?5=">' %4 7% $61 7' 4 <% 31 4 <% 4 ? 3=% ?%>3=' 1$ 3= ' 1 ? $61 7' 3=% 4 <% ' H% 1F% 3=% 9% 5%@ 31(3=% C ?%6 >463% 1$ 3=% '%2<% 4 <%f ' ?' $16 4 F1 '%2<3 ="">>' 8F="2=' 2466@%5 G11?$ H%3F%% % '%2<$ ' 3=% ?%>3=' 1$ =%6 1 ? 31 H% 34<% ' $61 7' 3=% 4 < H% 1F% 3=% 9% 5%@ 31 3=% C ?%6 >463% 1$ 3=% >>%6 '%2< 4 < 4 ? 3=% % :3=' 4 ? H6%4?3=' 45 H%$16% 3=% ' 7C 3"> @ 3=% % :3=' H@((3=% H6%4?3=' 4 ? (3=% 61?C$3 3=%6%1$ H@ 3=% ?%>3=' 4 ? ?"B"?% 3=% F=1 ' H@ " %3@ $1C"f 4 ? 3=% 0C13"% 3 F' ' :"B% 3=% 36C% 21 3% 3$ 1$ 3=% C 4:% 42216?" :' 31 F="2=' 7%3=1? 4 ? 6C % 4 ' ="">>5 4 ? %55% $ 5=4 ' H% 7%45C6%? 4 ? 3=% 5%B%64 ' 'C3"%5 1$ 1 4:% 3=%6%H@ H% 217>C3%? 4 ? 21 %$3%? 42216?" : @ 4 @ C531 7% 64$3"2% 16 54:% 31 3=% 21 3646@ 13 F"3H534 ?" :' f'

E=43 3=% 36C%' 1 3% 35 1$' 1 4:%(

2 o' F=%6%45 H@ 4 ' $3 1$ 46 "47% 3 74?% " ' 3=% %21 ? @%46% 1$ (3=%'6% ; 4.%53"%5 4": % % 3"3C$%? ' $3 $16 :64 3" :' 31 3=%'6 % 4.%53"%5 5%B%64 ' 4??"3"1 4 # ?C3"%5 C>1 ' %%6%(% 4 ? 13=%6 " C165 $16 &1C6 @%46%5 $6 7' 3=% 3"7% 3=43 4 ' $3 $16 ?1CH " :' 3=% ?C3@ 1$; ! I2"5% C>1 ' %%6% % ' 4 ? 13=%6 " C165 ?C6%"6":' 3=% 5>42% 1$ (%' @%46% ?13$' %I>"6% "3 F45 % 4$3%? =43 $61 7' 4 ? 4$3%6 3=% %4B% $%% 3=' ?4@ 1$ 1B%7H%6 " ' 3=% @%46% (1$ C6 16?' % 3=1C54 ? 5"I' =C ?6%? " %3@ 4 ? 1 %' 3=%6% 5=1C ? H% 3=61C:=1C3 3=%"6% 4.%53"%5 9" :?16=% 1$! : 4 ? '17" "1 ' 1$ E4 %5 ' 4 ? 1F % 1$ %63 " <% MC>1 ' BV%%?% 64"5%? %B"%? 21 %$3%? 4 ? >4"? C 31 3=%"6% 4.%53"%5 3=%"6% %"6%5 4 ? C2% 55165 ?C6%" :' 3=% 5>42% 4 ? 3%67% 1$ &1C6 @%46%5 4 ? 1% 1 :%6 $16 %%6% % @?%6 4 ? 13=%6 " C 65 3=%6%" ' 7% 3"1 %? H@ F4@ 1$! I2"5% 1B%6 4 ? (4H1B% 4 ' 13=%6 'C3@%5 =46:%5 4 ? 7>15"$1 5 H@ @ $167%6 $3/ 16 3 F="2=' 5=1C ? H% 3=% ' C %I>"6%? 5%3 4 ? "7>15%? " ' 5C2=' 74 %6 ' 45 3=%6%" ' "5 7% 3"1 %? F="2=' 43%5 4 ? ' 3"%5 4$16%54"? H@ $3 1$ 46 "47% 3 74?% " ' 3=% ="6? 4 3.' &1C63=' @%46%5 1$ 3=%"6% 1F 4.%53"%5 4":6"% 46% '21 3" C%? C 3" ' 3=% 5%4B% 3%% 3=' ?4@ 1$ 4@ % 3=1C54 ? 5"I' '=C ?6%? 4 ? " %3@ ' %4@% '#' % "3 $C63=%6 % 4$3%? =43 $16 3=% $C63=%6 % 21C64:%7% 3 1$ 5C2=' >%651 5 F=1' 5=4 ' B1 C=346" @ 3 36"H 3% 31F46?$ 3=% 64"5%"=:' 4 ? >4@" :' 731' 3=%"6% 4.%53"%5 ! I2=% C%6 4 @ 5C7% 16 5C7%5 13 %I2%%?%" :' " ' .2=% F=1% 3=%' 5C7% 1$ &"$3%% % =C ?3%? 3=1C54 ? >1C ?$ C>1 ' 3=% 5%B%64 ' 3%67%5(4 ? 3%213$3>% %5 = 6%" ' 4$3%6 7% 2U %8$ 3=43 $61 7' 4 ? 4$3%6 3=% 5%4B% 3%% 3=' ?4@ 1$ 4@ F="2=' 5=4 ' H% " ' 3=% @%46% 1$ 1C3 16?' %' 3=1C54 ? (5"I' =C ?6%?' " %3@ 4 ? 5%4B% ' 3=%6% 5=4 ' H% 3=61C:=1C3 3=%"6% 4.%53"%5 9" :?17% 1$! : 4 ? '17" "1 ' 1$3 E4 %5' 4 ? 1F % 1$ %6F"2<% C>1 ' F%%?% 64"5%? %B@%? 21 %$3%? 4 ? >4"? C 31 3=%"6% 4.%53"%5 3=%"6% %"6%5 4 ? C22%55165 $16 %%6% &% @?%6 4 ? 13=%6 " C165 =%6%" ' 4$3%3 ' %I>3%55%? H@ F4@ 1$! I2"5% ' 1B?6 4 ?' 4H1B% 4 ' 'C3@% ' =46:%5 4 ? 7>15$21 5 H@ 4 @ $167%6 .e$3 16 3 3=% ' C %Q>"6%?(5%33 47"' "7>15%? 1 % ">1"%3@ 16 =4 $% >463% 1$ 3=% ' 5%B%64 ' 43%5 4 ? 'C3"%5 1$! I2"5% :64 3%? H@ (3=% 54"? 453 7% >1 %? $3 " ' 74 %6 4 ?' $167% $1 1F%" :' 83=43 "5 31 54@ f(

! I2"5%' 'C3@'C>1 ' %%6 ' % ' N 1

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%%6') ' 4H1B% ,5(T?(

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&16 %B%6@ 466% ' ,' " %:46 16 (" C16 >6%>46%? $16 " %:46 74?% =%6% $16 54% 3=43 =43=' 6C ' 3=61C:=' 4>%

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16 74?% F"3=' 16 >455%" :' 3=61C:=' 4 @ &16%": ' 743%6"4 $$ 16 ' 4 @ 7"I3C6% E"3=' &16%": ' 743%6"4 $ 31 H% >4"? H@ 3=% 74<%6 3=%6%1$ 4 ? 51% >61>163"1 4H @ $16 4 :6%43%6 16 %55%6 C4 3"3@ &1C6 5=" " :$ #' '

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31' 4 @' %51 ' 16 %51 5 >1?@%5 % "3"%<% 16%' 16>16@% F=4351%B%6 $16 3=% 54 7% 3=% 5%B%64 ' 4 ? 6%5>%$ "@% 43%5K
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AC"? 13=%6' " '$%6"1C6' " "53%65' F=4351%B%6 ' 5=4 ' @%" ? 4 ? .4 @' C 31' ="5' 4.%53"% 3=%' 5C 7 % 1$' &1C6%' 5=" " :$ $16' %B%6@' F% 3@' 5=" " :$ F="2= =%' 16' 3=%@' ?1% 6%2%"B% " ' % @%46% H@' B"63C% 1$' 4 @ 4 46"%5' G643C"3@' 1C 3@' 1 %@' %F46? &%%5' 16(61$"33$ 31' ="7' X6 3=%7 4226C" : ' $16' 16' H@' 6%451 ' 16' "$2245"1 ' 1$' 3=%"6% 5%B%64 ' $$"2%5' 16' ! 7 > 1@64% 3$' 31' H% 455%55%? " 7>15%? %@@%? 4 ? 21 >$3%? " ' 5C2 Y 7 4 %6' 45' =%6%4$3%6' "5' 7% 3"1 %?

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9 2 o' F=%6%45' 74 @' 1$' 3=% 4 165; %55C4:%5' 4 ?$' % %7 %""3$' @3=%5' %6%?"34 .?63$' 4 ? 0 $-- -' " 3% ?%?' H@ 3="5 $ / 31' H% 2=46:%?' F"3=' 3=% 1C ?' 43%5' 45' 4$16%54"?' 534 ?' " 2C64H6%?' F"3=' 16' (46% 5CH.%$$' 4 ?' @4H % 31' 3=% >4@ 7 % 3' 1$' 5%B%64 ' % 3' =46:%5' 16' C"3@%5' "55C%" :' 1C3' 1$' 3=% 54 7 % 16' 31' 3=% >4@ 7 % 3' 1$' ?"B%5% &%%' & 6 .% >3$' % 3$' %6B"2% 16(3=%6 % 3$' 3=%6%C>1 ' 6%5%6B%?' 1$' 2=46:%?' H@' 6%4$16" F=%6%1$' =% 36C% F %65' 4 ? 61>6"%3165' 1$' 5C2=' 4 165' %55C4:%5' 4 ?$' % %7 % 3$' 4 ?' %6%?"34 7 % 3$' 4 ?' $ 7"55%5' ?1% H3' " ' 36C3=' 6%2%"B% ' 31' 3=%"6% 1F % C5% 3=% 36C% @%46% @' B4 C% 1$' 3=% 54 7 % $16' F="2=' %B%63=% %55% \3=%@' 6%]' H@' 3="5 ($3' 2=46:%?' 31' >4@' 3=% $C ' 1C ?' 43%' 1$' &HC6' 5="$" :$ $16' %B%6@' F% 3@' % E " :$ 1$' 3=% 3$C% @%46% @' B4 C% / 3' "5' 3=%6%$16% ' ?%2 46%?' 4 3' % 4$3%?' XH@' 3=% 4C3=16"3@' 4$16%54"?' =43' "33' 5=4 ' 4 ? 74@' H% $4F$C ' 31' ?' $16' 3=% 4 ? 16?$' F %65' 4 ? 61>6"%3165' 1$' 5C2=' 4 165' %55C4:%5' 4 ?$' % %7 % 3$' %6%?"34 7 % 3$' 4 ? >7 "55%5' 45' 46% 2=46:%?' F"3=' 3=% 1C ?(43%' 45' 4$16%54"?' 31' 4H43% 4 ? ?%?C$3' 4=?' 31' 6%34" % 4 ? <%%>% " ' ="5' 16' 3=%"6% 4" ?$' &1C6' 5=" " :$ " ' 3=% >1C ? $16' %B%6@' &%% &46 7 % 3' 6 13=%6' 4 C4 ' % 3' 16' (4@ 7 % 3' 2=46:%?' C>1 ' 16' "55C%" :' 1C3' 1$' 3=% 7 "55%5' >6' 4 @' >463% 3=%6%1$' 16' =%6%C>1 ' 6%5%6B%?' ""?' 4 ' 4 ? %B$3@' >%651 ' 4 ?R >%651 5' F=1' 46% (16' 5=4 ' H% 4 @' F4@' " 3"3C %?' 31' 5C =' % 3$' 4 ? C4 ' 4@ 7 % 3$' 46% =%6%H@' 6% C"6%?' 31' 4 >F% 5C2=' ?%?C221 5 ' 4 ? >4@ 7 % 3$' C>1 ' 3=% ' 6%%%">3% 1$' 3=% 6%5"?C% 1$' (5C2=' 7 1 %@5' 45' ;5=4 ' H% ?C% 4 ? >4@4H % 31' 3=% 7 ' $16' 5C2=' % 3$(16' ("7 C4 ' 4@ 7 % 3$' 6%5%6B%?' 16' 2=46:%?' 45' 4$16%54"?f ' ' ' ' ((

2 o' H% "$' $C63=%6' % 4$3%?' H@' 3=% 4C3=16"3@' 4$16%54"?' =43' $16' 3=% H%33%6' 455%55" :' 16?%6" :' %B@" :' 4 ? 21 %$3" :' 1$' 3=% 5%B%64 ' 5C 7 %5' 1$' 7 133%@' 51% 45' 4$16%54"?' "7 "33%?' 4 ? 4>>1" 3%?' 31' H% >4"?' 4 ? $16' 3=% 716%' %$$%$3C4 " >C33" :' 1$' 3=" 5 (.Y5% 3' $3' " ' %I 2C21 ' 4 ' 4 ? %B%6@' 3=% %651 5' =%6%4$3%6' 47%?' 5=4 ' H% 17"55"1 %65' 1$' 4 ? $16' 3=% 5%B%64 # 4 ? 6%5>%$3"B%' 1C 3@%5' "3@%5' 161C:=5' 1F %5' 4 ?' 42%5 =%6%4$3%6' 7 % 21 %?f ' D

R ((' (' &16' 3=% 1C 3@' 1$' %?$16?(' (' ' ' D

=%' 1 1C64H % % 6@' 16?' C3=" ' 1 % 4 ? $ %"6%' >>46% 3' 31' 3=% ! 46 % 1$' 9% 3' =%' 1 1C64H % !?F46?' 16?' C55% ' 1 % 1$K D 3=% 1 %5' 1$' 3=% ' C<%' 1$' %?$16?' =%' 1 1(C64H % 1H%63' 16?' C55% ' 4 13=%6' 1$' 3=%(1 %5' 1$' 3= ' C<%' 4$' %?$16?(=%(1 1C64H % 1H%63' 6C2%' =% 1 1C64H % =46 %5' %":=' !5 C"6%5' "6 E" "4 7' G153F"2<% "6' 1=' 4>>"%6' "6' 1=' 1331 ' "6' 3=> @' =%53%6' "6' 1=' C6:1"C%' "6' 1F 4 ? 53> % "6' @ 5% 3' =% 7 12<% "6' 1=' 5H16 % "6' 1=' 16?4 3' 461 %33$' 5#6' =1745' 1 3 "6' 1=' &64 <@ ' "6' 47%5' 536%@' 9 ":=3$' E" "47' 'C 217H% "B%6' C<%' E" "47' 13% %6' %F"5' 1 %4CI' =1745' 61F % % .47" ' G1 C%53' =1745' "3%65?1 (47C% ' 43%6' 1=' 5H1E"% E" "47' !466%6' 5% "16' E" "47' &153%6' =1745' =%@ %' (E" "47' 4 7%6' "2=4"?' 31 % !?F46?' 31 % 1=' 4CI (1=' 12<4@ % E" "47' ' >% 2%6' "2=46?' !?F4$?$

"' " 3%6" %?1 ' 3=% 1 (

D E" "47' 531=%' G%16:% !?F46?$ =1745' 61F 54 ' 1H%63' HC47:C>(E43?6' 46@' 1= (' 4$B%@ ' 1$' =C6 %@'
% 6@' 5= %@' .C "16' 47C%# 13' 47C% ' %?$16?' C7>=6%@' Y"5=' =46 %5' G?6@' E" "4" ' ;.>;6%6' .C "16' 4" 3' 1= '
=17>51 ' 1H%63' C? %@' 1= ' 46B%@' 1$' 2<F% ' =1745' =6"53"% 433=%F ' ' % "5' E" "47' .B%54@' (=1745'
4 $>% @' 47C% ' =1?%5' 1= ' E4:534$$% E" "47 "721335 "2=1 45' $4 :%6' 1= 'G64 :%6' E" "47 E="33H6%4?'
%=%7"4=' 64 ?6"3=' "2=46?'(E":.' =1745' 1= 51 ' 'G%16:%' 46 46?"531 % "2=46?' 6 %H 6' 1= ' '4B"5' E" "47'
:/ T ' ,' 1131 ' 47C% ' "$ 5"?% 1= ' !531 ' 1= ' "C3 %@' 1= ' 4>>"%6' E" "47' %%2=%6' 1= ' ":.' E" "47'
162 "$$% E" "47' " %6' !5 C'6%5 G%16:% 1?%5 &64 2"5 642% =1745' 6 1?' 5% "16' C:=' 7"3=' E" "47' =66'
=1745' 6 1?' .C "16' =1745' 61F 54 ' 1$' 1I%6' G% 3%7% '3

&16' 3=% 1F % 1$' %?$16?/ B

' =%' 4@16' $16 3=%' 3"7% H%" :' =1745' " %65?1 ' =1745' =6"53"$%' 5 C"6%5' E" "47' &153%6' '1$316' 1$' !4F%5'
1= ' !531 ' !5 C"6%(1= ' 4F%5 1H%63' % ' E" "47' 4 %@' E" "47' %2<%33' E" "47' &4?1' 1= ' 64F %@' R
D O% 3'%7% ' E" "47' &4?1' '64>%6V'

((' ;' ' &16' 3=% 1C 3@' 1$' %6<$'V

=%' ":=3' 1 1C64H% "6' 1= ' 6%B16' 9 ":=3' >%4<%6' 1$' 3=% 1 1C64H% HC5%' 1$' 171 5' 453%6' 1$' 3=% 1 $'
4?1 % 1$' ="5' 4.%53"%5 7153' 1 1C64H% 6"B@' 1C 2" ' % 6@' !46% 1$' 346 " :' 1$' 3=% 9" :B17%(1$' 2134?'
=%' &16?' &6>2"5 ' 4F %33' 1C 34:C% 16?' 166%@5' 1 33% 4?' %"6% >>46% 3' 1$' 47%5' !46% 1$' H" :?1 ' =%' '
H 1C64H% %6 46?' G6%% B" ' !5 C.6%' "6' C7>=6%@' &153%6' "6' 1= ' %=1C5%' "6' =1745' '64>%6' "6' E" "47' D
;' "2=' "6' % 6@' E" 2=217H%' "6' =1745' 46:% ' "6' !?71?' &%33@> 42%' "6' 1= ' 1HH@' "6' 3=1 @' $4B7"
"6' E" 1C:=H@' 531 ' "6' E" "47' 9% ?6"2< 461 %33$' "6' % 6@' &4 % 9 ":=3' 1$' 3=% 43=' "6' =46 %5' 163%6' "6'
E" "47' 6C7H4 ' "6' 1H%63' @%' "6' :%$ 11 ' 4@' "6' !?F46?' 166%@5' "6' E43%6' 46:%5' "6' =6"531>=%6' E2% '
"6' E" "47' E="3% 13<%' "6' 1 43=4 ' 4@71?' "6' =1745' '1%74=' "6' =1745' 64B4"%' "6' E" "47' 24F% ' "6'
% 6@(1= 51 ' 97 :=3 ' 1= ' 31 %=1C5%' 1= ' 4 ?@' 1= ' 62=%6' "2=46?' % " ' "2=46?' ?F163=' "2= '
1 %5' E" "47' =% 6@' !?" 1?' &%33@> 42% % 6@' 9" :574"%' =1745' %?F% ' 47%5' 31 %=1C5C' =46 %5' G%6$46?' '
1=>' 4:64 % 1$"C5' 6":=3%F% ' 4C ' 131 ' 5% "16' E" "47' 4C# 4 $%" ?' 42=% ' =46 %5' &%33@> 42% 4C ' 131 '
.C "16' 1= ' %>>%5 %@' !? "1?' 34 ?" :' "2=46?' @%' =1745' &%33@> 42% . %5' %6613$' =1745' ..2<%6"?:%' E" "47'
E"5%74 ' % 6@(' %@" :' "71 ' 4621C63' 1:%6' '64>%6' "2=46?' % % 58 'R 1=' E="3%" ?' 47%5' %5' !?F46?'
=%6F11?' &?71 ?' 4F@%6' 4>3"53' 4@' "2=46?' 1C3=H@' =1745' GC 3%6' =1745' C6 %6' 1=' 1C3 H@' =1745'
1C3=H@' =1745' %% &64 2"5' E="3% 1= E="3F"2<%'(=1745' $.1%74 ' =1745' %@ 71C6' =1745' ">>" :' 1H%63'
9 ":=3' G%16:%' 466"51 ' 1=' 163%6' 1=' C77%6' =6"531>=%6' E" 1C:=H@' 1H%63' 4:133' 1=' E4 "5' 1='
1 1F4@' E" "47' 33:%' E" %7' =17>51 ' 1=' %6 %@' 1=' E"?74 ' 63=C6' 51F%' =1745' G466%33' =1745'
46F11?' E" "47' 7"$=' =1745' %?"213%' "71 ' 7"3=' % 6@' 433%$3' =1745' 146?' E43%6' 9 ":=3' 463=1 17%F'
">>" :' 1=' &" 2=%6' 1H%63' %%' &%"I' 5 B%63(' G%16:%' 4:64 % 1=' %42 2 % 1=' %37% 5' 1$' 34 $16?' 1=' 'C%'
1=' '4H@' "2=46?'9 4>>' 1." ' 11?%6' =1745 1>?%6' 1=' 133" :%6' 1$' ?H 6@' %H453"4 ' >@$16?' !?F46?' %%?%'
!?F46?' 1B%?% ' =1745' %%?%' "2=46?' 4 7%6' &64 2"5 466@' 1B% 42%' %654@' 1=' E" ?%6' 47%5' E" 2=' % 6@'
D 3%>=% 5' 1=' >133" :%6' 1$' <>% K' =46 %5' 1 " 5' '4B"?' L:.' 216@' 46<%6' 46 31 ' E="3% 12<' 47 %3' 46<%6' 15%>='
'(1F54?% 4>=' 13 4 ?(' =1745' %6 % !5 C"6%5 '1$316' &64 2"5R 45=F% ' 1$' % 747' =46 %5' 1 13B4@' G%1 :%
1 %5' E" "47' %" ?4 ' 1H%63' =17>51 ' H5 % ' 61C:=' '1" >6' " ' >="5"2<%' E" "47' %%B%5' 1H%63' % " :$ 1= '
' ":.' 15%5' 4?% "2=46?' <" %6' 47%5 31 % =46 %5' C>=' "2%' E43<' 5' 1$' C331 ' "2=46?' 4" % =46 %5'
466"51 ' 1= ' 7$3=' 3=1 @' %4B%6' "2=145' C7>=6%@5' =46 %5' 4 B%6 @' =1745' 3%>=% 5' !?F46?' 642<53> %
(G%16:%' 47>46?' 1H=63' % F11?' "2=46?' C2%@' 1= ' "B%6' 1H%63' =2<4 %6' 47%5 16?%64@' =1745' %5?4 %
=1745' 4@ %5' &64 2"5' G61B%' 1$' G61 % % 6@' % 5 ' 1= ' $% ?@' 1$((%3217H' 455%33' 1= ' 4 2%' 1$' =46 1F'
&64 2"5 "2<133' 1$' E%53 =46 1F((! ?F46?' 1%12<' =1745' 36" 331 ' "2=46?' &"5=H>6 % % 6@' %4212<' %3%6'
4F@%6' 1H%63' 451 ' "2=46?' 11>%6' =1745' 1F5 4?% "3 1 (E" =' 1= ' 1 12<' 1$' 36>3 @' =46 %5' %4212<%(
("2=46?' ="433=%F%5' "2=46?' %@$16?' 1= ' E" ?%6' " 45 %H16%' "2=1 45(' >33"=:%6' "2=46?' 133" :%6' 1$' C6B" =' '
1= ' %4?' 1$' 4 :%@' 1= ' %4?' 1$' 1?23"33' E" "47' '%4 %' 1$' %FH%66@' G% 3%7% ' " "=7' ?E163 $ 4 ?@'
E43%674 ' !5 C"6%5' "2=46?' ?F163=' '1?316' 1$' 4F%' &64C?5' C :%6$>6?' '1?316' " ' =@5<<%' 47%5' 6%F%6'
'1? 16' " ' =@5<<%' =%' 4@16' 1$' %4?" :' =%' 4@16' 1$' H" :?1 ' =%' 4@16' 1$' (E4 " :$16?' =%' 4@16' 1$'
%FHC6@' =%' ?%674 ' 1$' 2<" :=47' $16' 3=%' 3"7% H%" :' =%' 4@16' 1$' 4"?% =%4?' $16' 3=%' 3"7% H? :' &64 2"5
9,6"":H3' =1745' 9" :' !`%<"% ' ¸ 46<%' >5% ' C6 %@' G% 3%7% '#' D D ,

&16' 3=% 161C:=' 1$' %F' E" ?516

=%' 4@16' ?%67% ' 4 ?' 3%F46?' $16' 3=%'?7% H%" :' 1?16' G6%:16@' 45<46?' %4 % %6 46?' G64""B" ' 4>3"53'
4@' =46 %5' 133$' E" "47' ?F163=' C?"316' 1= ' 4 ' =%1?16%' 4 ?C' !5 C"6%5' "2=46?' >"4 I31 ("2=46?'
4 %5' "2=46?' "5=H1C6 % &64 2"5' %:C5' 1= ' =C62=' G%13:%' E11?51 ' <=46?' %4 % 1H73' %F%33' G% 3%7% '
"$ =46 %5' 163%6' "6' E" "47'" 24F% ' 9 ":=3$("2=46?' 1>=47' = 1 ' 7"3=' E" "47' 7"3=' C7>=6%@' G64B%5'
!5 C"6%5' 15%5' 6C2=' '1? 16' 1$' $4@5"2< (' (' ' ' (

&H6' 3=% 1C 3@' 1$' C2<$"' ' (

(=4' ":=3' 1 1C64H%' !?F46?' 16?' C55% ' %21?' 1 % 31' 3=%' 'C<%' 1$' %?$16?K' =46 %5' 16?' =%@ % 1$'
3=% "63:?17% 1$' 2134?' =% > 1C64H% % 6@' 463"% !5 C"6% =%' ":=3' 1 1C64H% =1745' E=4631 ' !5 C"6%'
(1"=>331 %3' 1$' ="5(4.%53"%5 1C5=1?' 4?(1 % 1$(' ="5 4.%53"2' 7153' 1 1C64H% 6"B@' 1C=2" ' =%' " :=3

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=%" 1 1C64H % i?F467 \ 167]' C55% ' %21 ?' 1 % 31' 3=% '?$167 =%" 1 1C64H % '?$1" =%$1' C53"2% 6%H@' 1= 'G64 B" ' C55% ' =%?' 1 % 31' 3=% '.C<%'1$ %?$167 =%" ":=3 1 1C64H % 3=% 167' =%$1' C53"2% 6%H@' 1= 'G64 B" ' i5 C'6% "6 i?F467 (%@7.C6 "6 %3%6 6.?%4CI' "6 &64 2"5 '64<% "6 7%5(1 467M "6 1C2="%6 E6%@' "6 1C63% 4@ 1 % "6 &64 2"5 163=2133 "6 G%16:% ="?%":=' "6 E=" "47' .1C63% 4@ "6 E=" "47' ,4B@' "6 C:=' 2<4 ?' "6 E=" "47' '64<% "6 "2=4%7' %@ % 6@ 46%F' "6 =17&45 %46 "6 E43%6' ? :% "6' ?6%F' 4 ":' "6 63=C6 ="2=%53%6 "6 =17&45 461 %33$ "6 1= ' 1 3%' "6 &64 %K "6(.71 ' %%2=';(":=3$ 1$ 3=%' "6 =17&45 %66@ "6(G%16: ' C32=" 5 "6 =17&45 6%B16' "6\ 1= R]' %61." 9 ":=3$ % 6@ 163 74 '; D &64 2"5 G1C63%=4@ 47C% ' 1 %' 1=' 1$% &64 2"5 &C $167' G%16:% 46<%6 "2=46?' 'C<% 1= ' 1H%$@' "2=46? 1$$" ' 1 43=4 6"?%4C.3 1=' 6"?%4CI' '%67"5 1 %' 1= ' =13FE"2=' % 6@ 3%>=% 5 7H615% 4 431 'D % 6@ 4 431 '8 'G"?%1 '.C "16 C:=' 4C:=4 ' =46 %5 4C:=4 ' "2=46?F' 46%F' 1= ' 163=2133 47>$%" ' 1?' 3"7% H%" :' =% 4@16 1$ %B%31 ' $16 3=% (>7 % H%" ' =% 4@16 >$ 166" :31 ' $16 3=% 3"7% H%" :' =% 4@16 1$ '463 7 1C3=' $16 3=% 3"7% H%" :' =% 4@16 1$ 4<=47>31 ' $16 3=% 3"7% H%" :' =% 4@16 1$ 1C3=' 1 31 ' $16 3=% 3"7% H%" :' =% 4@16 1$ "7>31 ' $16 3=% 3"7% H%" :' " 1C:=H@ 433=%F%5 463= 17%F' 3=1 @' 15 C"6%5 H' K

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' =%' 16?' 4@16' ?%67% ' 4 ?' =%6"$$%' $16' 3=% 3"7% H%" :' =46 %5' .. 13?'..' 46 C%55% 1$' E" 2=%53%6' ! ?%53' 1 % 31' 3=% C<%' 1$' 1 31 ' 63=C6' 16?' "521C 3' 6F" ' 1$' 3=% 9" :?17% 1$' 2134 ?' =1745' 16?' &4"6$4I' 461 ' 47%61 ' 1$' 3=% 9" :?17% 1$' 2134 ?' =%(":=3' 1 1C64H% "6' % 6@' G11?6<< 9 ":=3' 4 ?' 461 %33' 1 % $' "5' 4.%53"%5' 7153' 1 1C64H% 6"B@' 1C 2"# "6' E" "47' 1H" 51 ' "6' 47%5' 611<%' "6' "2=46?' 4 ?@5' 461 %33$' "6' 1= ' %F %@' 9 ":=3(G%16:%' 6"2<%33' %6.%4 3' 433' 4F% %216?%6' 1H@' (E"2<=47' '1?316' 1$' '"B" "3@(' '%4>%' 1$' ' 16<%' % 6@' E43<" 51 ' '12316' 1$' 4E% % 6@' =17>51 ' =1745' C331 ' % 6@' 34>@31 ' 1H@' % <" 5' 3=% @1C :%6' (% =%33' =%646?' !?F46?' =17>51 ' 1$' 46531 ' =1745' %5%3" % 1= ' 4@ %5' 1= 4.6 16' % 6@' C"6% "2=46?' 4 5=46?' =1745' 4 : %@' E" "47' E"2<=47' =1745' 15% %@' !5 C"6%5' 1:%6' = 2<%31 ' E" "47' 17 " 51 ' =6"531>=%6' 6%46@' =" ">>' 6" 2%' =1745' % 51 ' "2=46?' %@ 1 ?$' &64 2"5' 'C2<F163=' (=6"531>=%6' (C331 ' %3%6' '4F51 ' ' =1745' 17 " 51 ' =1745' 466"51 ' E" "47; =17>51 ' E" "47' %5%3" % 1H%63' C"6% =1745' 1 7%5' =1745' 4 : %@' .C "16' 7H615% %2<F"3=' %1 46?' E 51 ' ' "2=46?' %F"33' "2=46?' 1F64@' =1745' =17>51 ' "2=145' C:46' 47C% ' E4 <%6' %1 46?' =17>51 ' 1= ' %4 ' 1= ' CI31 ' E" "47' 163" 7%6' G% 3%7% f' ' ' (' (

&16' $1%' 1F %' 4 ?' 1C 3@' 1$' 9" :531 ' C>1 ' C f'

=%' = 4@16' ?%67% ' =%6"$$%' %216?%6' 4 ?' =47H%6 4" 5' $16' 3=%' 3"7% H%" :' =%' E46?% 5' 1$' 3=% 6" "3@' 1C5% 0 $16' 3=% "7% H%" :' ' 47%5' Y64?5=4F' "6' "2=4% ' E4631 (1= ' 475?% ' =46 %5' 5H16 %' E" "47' G%:' "2=46?' G%%' 1= ' H:46?' 1= ' "53%6' 1$' %B%6 %@' 433=%F' >> %@46?' :1 H@' '4 "% ' E" "47' '4F51 ' 4 >=' E4631 ' =46 %5' E46$1 ' E" "47' 0 4" 3 0C" 3" ' !5 C"6%5' E" "47' V4631 ' 46<% 9%6H@' E" "47' 61F %' G%16:%' '" <="51 ' .C "16' 4>34" % 466@' E" "47' 1C?' E" "47' 43 @ (=1745' 466"51 ' =1745' 17 " 5' 4 ?(!?71 ?' 'C 24 $% 1F%6' (E4 "5(E" "47' ?% % 47%5' 1C ?' G% 3%7% f

(' ' 0 ' &16' 3=% 1C 3@' 1$' !55%I/

=%' ":=$ 1 1C64H% % 6@' 16?' E4?%' 1 % 4 ?' %"6% >>46% 3' 0 31' 3=%' !46% 1$' C$$1 <' =%(' ":=3' 1 1C64H% =46 %5' 16?' =%@ % 1$' 3=% 9"C:?17% 1$' 2134 ?' =%' ":=3' 1 1C64H% 1=' 16?' C335' 1$' 3=% 9" :?17% 1$' 6%4 ?' =%' ":=3' 1 1C64H% (=46 %5' 1C 34:C% !5 C"6% =4 2% 16' 1$' 3=% !I2=% C%6' 4 ?' 1 % 1$' "5' %53"%5' 7153' 1 1C64H% 6"B@ 1C 1" ' =%' 1 1C64H% 1H%63(%63"% 4 "53%6' 4@ 46?' % .47" ' "?74@' "2=46?' 466%33' 4 >=' G6%@' E" "4" ' 4@ 46?' !5 C"6%5' "6' =46 %5' 466" :31 ' "6' 1= ' % ?"5=' ' E" "47' >> %31 ' ' 47 % ' G6"7531 ' "6' E" "47' "2<$' "6' 4 "C% ' 6@1 ' "6' &64 2"5' 45=47' "6' 4@ 46?' % >C6 ' =1745' ":=3" :4 % ' C:=' !B%646?' "6' E" =47' C2<" ' "6' 1H%63' 12 %" ' ' =1745' "33 %31 ' "6' 463" ' (C7 %@' "6' "3 3=1 @' =?@' ("6' =1745' '64>%6' ' G%6B45%' ! F%5' $16' !?F46?' 7"3=' ' 47%5' C5=1C3' ' 0 =1745' %6 46?531 ' ' =46 %5' @66% ' "6' E" "47' 46<%6' ("6' =145' G466%33' "6' 1H%63' 7"3=' ' 1 4=' =" ?' $16f %3%6' 147%(' 1=' '@%6' ' 4B%' 47%5' 461 %33$' ' 1=' 647>531 ' 9 ":=3' 1$' $1%' 43=' ' !?F46?' &467%6' ' 3=0 @(61F %' "6' 1=' >4661 %' "6' "2=46?' ":>33' "6' =1745' &4 5=4F' ' ! "4H' 46B%@' "6' 0 G1H%63' 466" :31 ' ' C7>=6%@' G16%' "6' !?F46?' (C6 %6' ' =1745' "?? %31 ' ' =1745' '4B4 "' $

' ' ' &16' 3=% 1F %' 1$' 46F"2=/

' =%' 4@16' $16' 3=%' 3"7%' H%" :' =%' ":=3' 1 1H% =46%5' 2$6?' _ =%@ %' 1$'3=% "$":??7%'1$' 213 4 ?' "6' =1745' '4B4 (9 ":=3' 4 ?; %216?%6' "6' =" ">>' 46<%6' 461 %33' "6' =1745' "?? %31' 9 ":=3' =1745' 4 :%@' 3=%' % ?%6' 6' 1H%63' %474' 6' "2=46?' @%' 6'4 "%' " "3=' 6' "71' 4 ?$16?' 6' =46%5 7"3=' 6' 1H%63M 4 %' 6' =1745' 4 :%@'.C "16' ?%67%' 6' =" ">' '%4 %(6 % 6@' 1%' 6' E" "47' C34 ?' 4>"34' C6:%55%5 1$'3=%' 54"?' 161C:=' 6' 1H%63' 3%>=% 5

' ' D

&16' 3=% 1C 3@' 1$' G 1C2%53%6/

E" "47' 16?' "521C 3' 642@' 1$' 3=%' 9" :?17%' 1$' 6%4 ?' =46%5' 16?' 46 C%55%' 1$' E162%53%6' 1 %' 4 ?' %"6%' >>42%6"3' 31' 3=%' 'C<%' 1$' %4C$163' "6' 1H%63' 3<" 5' 9 ":=3' 1$'3=%' 43=' "3' 1=' 1F%' 9 ":=3' 1 %K1$'3=%' 461 5' 1$' "5' 4.%53"%5' 1C63' (1$' !I2=% C%6' ("6' 47%5' C5=1C3' "6' &64 2"5' C55%' ("6' E" "47' 9@3%' "6' "2=46?' 5 1F' "6' 1=' 'GC"5%' "6' 4 >=' 'C331' "6' 1H%63' % <" 5?" ' "6' 1=' %F31' "6' =1745' 433' "6' 1H%63' 1C3=F%' "6' E" "47' &166%53%6' ("6' "2=46?' 12<$' "6' =1745' 3%>=% 5("6' =1745R 33 ("6' ("2=4%' "2<$' "6' "2=46?' 463' \.9>":=3$']' 47%5' =@ %' "2=46?' '1F?%5F%' =@745' &1 %@' G%16:%' "33' "2=46?' &6%%74' 46"53%6 '433' FF' =46%5' '1F?%5F%' 1=' '%' 4 %%6' E" "47' 4 %' !5 C"6%5' 1=' 4651 5'(.C "16' 1=' 463%6' =1745' 4%5' E" "47' '%F@' =1745' 1?:%5' E" "47' 4 'G% 3%7%' E" "47' 4@:133' % 6@' 1IF%' '4B$?' E466%' '4 B%65' 1?:%5' 466"53%6' 433' 4F' % 6@' 6%5F"2<' 43=4 "%' 3%>=% 5' =1745' 4F.5' %6.%4 3' 433' 4F%' E4 3%6' !521C63' 1=' 61F " :' 47C%' 61374=' E " " ' 9" :52133' E" "47' '% "5' 1=' 1F' G%16:%' 4 :%6' =1745' "2<$' D 1H%63' %@?4' !5 C"6%5' 1H%6' 436"?:%' 1=' 1:%65' 1=' %6%?"3=' 1=' '1F5%' E" "47' C33%6H11<%' G% 3%7%' =1>445' 453%65' "2=46?' 1F%' 47C%' =%>>46?' =1745' 7"3=' =" "> =%>>46?' 43=4 "%' "? %6' % 6@' ="B%65' =1745' 3%>=% 5' 15=C4' @ F163=' G%16:%' 1 ?' 4@ 46?K 1 2=%53%6' =1745' "6<%' 1=' 4??1I' E4 3%6' 43%' %:" 4?' " ?46' E4" "=4' E@ "433' E4 3%6' C65%' G%16:%' 1@?' 47%5' "$=%' "2=46?' 43%' E" "47' 6@%' =1745' =%53%6' !?F46?' 7"3=' "2=42"" 1 %5' E" "47' 4 2%$113' E" "4 =' E4' =1745' 61F>%' 1=' 46<=C653' E" "47' E" 3%6' 47C%' .1HH" 5' " %5' %4 %' 47C%' <" %6' E" "47' 11<%' !?F46?' 11<%' E" "47'G""""5%' E" "47' % F" ' D 1F 4 ?' E11?' 1=' 12<$' E" "47' 1?:%5' 3%>=%' 4 ?F" ' 1H%63' 13=%6" :31' !?71 ?' =47H%6 4" %' 5% "16' 47?%' 46<%6' "2=46?' 1$16?' 453%6' ">' =4 2%6@' "2=46?' 4" %5' 1=' 34$$16?' 47C%' 1?6" :31' 1=' % 7' =1 "45' 6":':' 43=4 "%' "6<%' E" "47' 43=F4"3%' "2=46?' '%':=31' 47C%' 4 " :$ % 6@' 1 %3' 46"53%6M D 433 4 2' !?F46?' &C53' E" " 7' '1?F%' 1=' 466"133' !?F46?' &1@ %' 1=' 61F %' =1745' 3%>=% 5' 1$' H?HC6@' !?KF46?' 3%>=% 5' 1$'3=% 547%' % 6@' 1>%' !5 C"6%5' 1=' 7"3=' =6"531>=%6' 1 %' =46%5' E" ?' &" "47' E" 51' "2=46?/' 4F<%5F163=' !?F46?' E%HH' =1745' '4F%5' !?F46?' 3%>=% 5' .C "16' =1745' &6%<%' % 6@' G6%% %F4@' =" ">' =%>>46?' .C "16' "2=1 45' %4' &64 2"5' E11?F46?' E" "47' 4@%6' =46%5' 463' E" "47' 65F %' '1$<16' 9"7H%6 @' =46%5' 4 ?212<' E" "47' 4@ 16' 4@16' 1$' G 1C2%53%6' =1745' E4' G%16:%' C6?74';' E" "47' 64 2<217H%' =H" 45' E4 3%6' % 6@' E%46%' E" "47' 61F %' =1745' !?F46?$' G%16:%' %HH' 1=' 421H' 1=' 617F"2<' E" "47' E="33" :31' E" "47' 4F6% 2%' =1745' CHH' =1745' 1C :%' 1=' %$$%6@%5' E" "47' 61H" ' !?F46?(42=" ' G% 3%7%' 1H%63' '1674?$' 1$' " 21 %5' ' 1=' 6"?:74' 1=' 4 :%@' 4F %33' 4661F' !C5342%' 46?F"2<' % 6@' 11%' 1=' % F" ' 1=' GC"5%' E" "47' 4 "?@5' !?71 ?' 6%@' 1$' 466" :31' =46%5' 12<>' 466"53%6' 433' 4F' E" "47 1:%65' 46"53%6' 43; 4F%' 9% 46?' '%"4 %6%' =1745' E46 %6' E" "47' 6":5312<%' !5 C"6%5'(E" "47' 4 "%5' =1745' 3%>=% 5'.C "16' 1=' 617F"2=' 1=' 1 %5' 1$' 1C3=' 16 @' =1745' '4B"5' 1$'3=%' 1C6 %' 1=' 4@=1%' 1=' 6C ?%' G" %5' 45=' 5% "16' E" "47' 64? %@' G" %5' % B%" ?' E" "47'(9@3%' =1745' =%' 1=' @%33' G% 3%7% K' % 6@' 1 %33' 4F6% 2%' 42%' 4 ?' G%16:%' 1F %5% ?

' &16' 3=% "3@' 1$' G 1C2%53%6/ ' '

E" "47' 4@ 16' 4@16' "6' 1=' G3""5% E" "47' 11<%' !5 C"6%' ?%67%' E" "47' 6@%' !5 C"6%' ?%674 (K 1?:%5' ?%674' 6bY F %' ?%674' 4" %' ?%674' !B :5' ?%674' 2C?4716%' ?%674' @%33' ?%674' 1 :?%' ?%6 "4' E" 1I' ?%674' 1?F4@' '1?3H6' "2=46?' E" 3%' 1=' (12<$' E" "47' GC"5%' !5 C"6%5' =1745' "%' 4>34" %' 1@?' "2=1 45' E%HH' =1745' E%HH' %62%6' =1745' 1F%' % 6@R &C33%6' E" "47' 6":5312<' \!5 C"6%5';']' H' R (

&8 6 3=% 1C 3@' 1$' %6%$16?

=%' ":=3' 1 1C64H%' =1745' 16?' 1 " :5H@' 1$' 3=% 9" :?17%' 1$' 6%4 ?' 1=' 16?' "521C 3' 2C?4716%' 1$' ":1' 1$' 3=% 547%' 9" :?17%' =%' =1 1C64H%' =47H6%' 64H4`1' !5 C"6%' ("6' E" "47' G6%:16@(9 ":=3' 1 %' 1$' 3=%' C53"2%5' 1$' ="5' 4.%53"%5' 1C63' 1$' 9" :5' % 2=' "6' E" "47' E" "475' "6' %6H%63' 61$3("6' 1=' 15<" 5' 461 %33$' "6' !?F46?' 46%@' 9 ":=3' 1$'3=% 43=' 6' &64 2"5' E" 7 :31' "6' 1=' E" "475' 97:=3$' E" "47' &"% %5' 4C' &1 %@' 1H%63' 46%@' 1=' 'C331 13' 1H%63' 6"2% 47%5' 16:4' 1=' 6 1?' 1=' 2C?4716%' 1$' 9% 32=C62=' =1745' 16 F4' 1$' 3%> %31 !5 C"6%5' =1745' G%%65' %6.%4 3' 433' 4F' "2=46?' %%?' 5% "16' "2=46?' %%?' .C "16' %6H%63' E% 3$4" :' =>745' 12<5' !?F46?' 16 F4' =1745' &1 %@' 1$' E="3%@' 5% "16' =1745' &1 %@' 1$' 314<R 1=' 1F' > 6@' 16 F4' 47C%' "33' 1=' 113=' 1$' % 31 &%6?" 4 ?' G16:%5' !?F46?' "33 %31' =46%5' 4 ?F" ' 1H%63' '1HH" 5' E" "47' 47H' 465=4' 6"?:%5' E" "47' '4 35%@ 5% "16' E" "47' '4 35%@.C "16' %6H%63' CH6%@' 1H%63' =4> " ' 7H615%' 2C?4716%' 1C :%6' 11<%' 1H%63' 3 165' =16 45 % @%6' 1$' 3=% 116%' E" "47' E" 31C6' 1H%63' @ %33' 1=' R C65%' "2=46?' 46 4H@' =1745' 1F46$=' 1H%63' 4@ %' =17 5' '%4=4@' "2=46?' <">>' E" "47' GC" "7 1$' 4 :531' 5% "16' E" "47' GC" "7' 1$' 4 :531' .C "16' &64 2"5' 45<%6B" %' =1745' E":7 16%' 1=' @6%' 47C%' "62=' 1=' (4F%@' 1=' G11?@%6' =1745' 46%@' % 6@' G16:%5' 47%5' E11?=1C5%

=% @' N('eN' 17"35(!5 C"6%' (

1 (' (' ,

1= E4 5=47 !?F46? 46 %@ =1745 'C>>4 47%5 E% " :31 >" %5 6"?:%5 % 6@ E":716% E" "47 E4
1= H64=4 1$:%531 1H%63 C3%6 3=1 @ "??1>= =1745 4F" 5 =1745 >C" "7 1$ E="32 "C62=
1= "62= 6"?5312< 463$16? .C "16 E" "47 @?4 =1745** 17><4 5(C7>=6%@ 4@1 !?F46? 1??
%6%$16? 1$ C$H 1= (17%5 % 6@":C 1$ 'C $%"?!5 C"6%5 "B4 C5 4C:=4 1= 2C?4716% 1$ 4 :4624
1:%6 2C?4716% 1$ 6%2% 4 1= 46B%6 1$ >31 1F4 ? 4C:= 1= 1 :' 1= 6"53 &64 2"5 G%%65 =1745
?%6 % 1$ 1 " :31 1= 1%<" 1$ 1 "3=1 E" "47 6"?:%5 1$(1 F4 47%5 E%53$4 " :(=1745 466.
1= E% " :31 1= E="33" :31 % 6@ 1 %5 =1745 F 1$ "33% 647>31 =16 @ 46>% 3%6 1$ " " :31
-- W =%6H1C6 % &64 2"5 E11?=1C5% 1=3F & %32=%6 1= 9"? %@ 1$ &1F =1 % .C "16 1= %6%$16? 1$ 1742@
47%5 46<% 47%5 E4 F" '4 "% 9%66@ .1745 %":= 1$ " 1= 7"3= 1$ 1 7%6 H4 =1745 &64 2"5
&15H611<% C7>=6%@ =1745 =1745 %6" :31 ,' 6"2<=1C5% 1= =%>=%6? 47%5 1 . 5 1$!431 (=" '
G% 3%7% !?71 ?' %2=716% !5 C"$> 1= 1H % a\ (

(&16 3=% "3@ 1$ %6%$16? f'

M =% 4@16 j6 3=% 3"7%'H%" :' =% ":=3 1 1C64H % 1= 16?' "521C 3 2C?4716% 1$ 3=%9" :?%7% 1$ 6%4 (?
"6 E" "47'(G6%:16@ 9 ":=3' 1 % 1$ 3=% C53"2%5 1$ 3= 1C63 1$ 9" :$ % 2= 4C' &1%@ % 6@ 16 F4 %6H%63
E%53$4 " :' 47%5(E% " :31 !5 C"6%5 1H%63 @71 ?$ =1745 4@""46? H64=47 %F46? =1745 433=%F:5
("2=46? E4?%@ ?%67% 1= 165j =1745 =C62= "2=46? 11% =1745 46<% 5% "16 =1745 46<%
.C "16 % 6@ 7"3= !?F46? 1?? 1$" E" "475 5% "16 1= E" "475 .C "16 47%5 6.2% 1= H64=4 ("2=46?
G>3 %6 !?71 ? E%4B%6 =%1>=" C5 @% 1= 7"3= =1745 ?%6 % E" "47 G6%% % % .47" " 1= " '
=1745 C?? 47%5 E%53$4 " :' "2=46?' =" >133$ H% 5=47 G% 3%7% '"

; ' (' &16 3=% 161C:= 1$ %753%6 /

(=% 4@ "$$ C53"2%5 4 ? %216?%6 $16 3=% 3"7% H%" :' =% 3:=3 1 1C64H % =1745 16? 1 " :5H@ ;1$ 3=%
9" :?17% 1$ 6%4 ? 1= 'C331 1"$!5 C"6%(1= =17><" 5 1= 4@ \ 1= ('E431 =1745 466"5 1= '
E" "475 R47%5]' 45F4 ? 5% "16 =1745 4 """":$ =1745 6"2% 1F % %6<% "2=46?(1F% 1= 1F% '
"2=46? 1%5 1= % 6"" :$ % 6@ 61F % 1 43=4 '4B"5 5442 17><" 5 "2=46? 1?:%5 G% 3%7%

&16 3=% 1C 3@ 1$ %63$16? /

=% 1 1C64H % 1H%63 %2" !5 C"6% "6 47C% G6"7531 "6 1= G46646? "6 "2<46?'&64 <@ "6 1H>
C53% "6 E" "47 1F>%6 "6 1H%63 12%" "6 E" "47 %74 "6 =1745 1>% 1C 3 "6 =1745 61:64B%
"3 1 43=4 9%43% "6 "2=46? ?%651 ' "6 !?71 ? ?%651 "6 47%5 %4? "6 % .47" 4331 l' "6 (!?F"
4?%6 "6 %3%6 147 461 %33$ "3 C7>=6%@ G16% "6 4>= 432 "$$% "6 =1745 "?% "6 E" "47 @33>
"6 1= C2< 4 ("6 &64 2"5 %":= "6 1H%63 45=47 "6 =1745 13 "6(% 6@ =4C 2@ "6 !?F46? C6 %6
9 ":=3$ G%16:% =C62=" " 45 "3C5 =46%5 %546 % 6@GC@ 1H%63 C53% =1745 1>% 1C 3 E" "47(G1$%(
% 6@ G16% 4>= &6%%74 5% "16 4>= &6%%74 .C "16 E" "47 1F>%6 =1745 45%@ 1H%63 ! F%5 7 1
C77%6 !?F46? =%53%6 E" "47 46B%@ G%16:% C 51 %6%7"4= . %5 &64 2"5 & @%6 =1745 6%"53 @ =1745
'64l % 6@ 9" ":6%F %@71C6 6%?% =47 564%" 4@1 !?F46? 6"521 (5% "16 !?F46? 6"521 .C "16 E" "47
6"521 G" H%63 11 9%43 =1745 647 G%16:% 4? %@ 47%5 E.33%61 :% 47%5 3%?74 1= =46%31 E" "47
!77%63> =1745 !77%631 4>= <" %6 "?% E" "47 421 1H%63 =%53%6 1= 12<4@ % 1= 466"51
1 34:C% '64<% E "47 1C 51 47%5 E" 7133 1H%63 46<=47 E" "47 6%"53 %@ 47%5 &166%53%6 47%5
G1C531 E" "4 " % =1745 45< 1= E%43=%6=%4? 47C% 1HH" 51 =1745 31 % 1:%6 1 %5H@
3C74?C<% 4F?% =1745 66"5 1H%63 1H13=47 1= G4>%5% "16 1= G4>% .C "16 %7@ =" ?' "2=46?'
%?%6 1= >% 2%6 G11?F @ 466" :31 15%>= 465=(G%16:% 1?%5 4>= E" :43% =1745 "6?' 1$ 43312<$
1= 'C=217H% '4 "% =%?1 !?F46?' 4"6%5 364 :% 12%" !?F46?' %@71C6 =1745 1F %53 =1745 %F4 ?
% "4 ?%6 E%?' =1745 E" $16?' 3=1 @ &466" :31 %6.%4 3 433 4F =" ">' "32=% E" "47 4B%63 &% "I'
4B%63 .C "16 66">=6%@ 4 1= 46? @ '1$316 """" =@5"2< !?F46?' 432 "$$% =46%5 &%66465 %"6% E" "475
1= 1H%63$ 4674? <% " :3? E" "47 463@ 1$ E43$16?' 47%5 % %33 E" "47 4<% 1$ E" 531 1= '
%74 G%16:% E="3% &64 2"5 9" :' E" "47 4674 G%16:% 1?%5 .C "16 15=C4 H74l' (\ =1745 1741]'
"2=46? E11%531 '(%1 46? 4 212< 433=%F C2< =1745 "2=1 $ 1$ C5=@ =1745 1F !": 1 @ 1
\1= 1@ %6 %F?.:43% 1@ %6 1= 'G1>>@ E" "47 1331 ".3=1 @ "??C >= "2=1 45 C6 %6 1= "2=46?51
1= E11?=1C5% 432=% 16 =" =@5"2< !?71 ? 7"3= E" "47 G6%% =" G1?74 % <" 5 1= 45%H@ =1745
4$%>% @ 1= "2=1 $ 1$ >6"2< %65 H" 1= "2=1 $ 1$?%6"=47 % 6@ 9" :5@ "2=46? 45% !5 C"6%5 E" "47
E6":=3 1H%63 "6? '4 7 "2=1 $ 1= '"75?% &64 2"5 1% !?F46? %" %5 =1745 &"5= =46%5 4@ %6
"2=46? 4@ %6 1= 16 % 5% "16(=1745 61C2= G% 3%7% =% 4@165 1$ %63$16? 4 ? 4" 3 H4 5 3=%
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(&16 3=% 161C:= 1$ 3(H4 5

=%' (5 %216?%6 4 ? ?%67% $16 3=% 3"7% H%" :' "6 47C% G6"7531 461 %33 G%16:% =C62=" % 6@(
9 %:6%F 1 -' 66"5 1= G4>% .C "16 1H 63 1H13=47 47%5; % %33 !5 C"6%5

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=% ":=3 1 1C64H % =46%5 1C 34:C% !5 C"6% =4 2% 16 1$ 3=% !I2=% C%6 4 ? 1 % 1$ ="5 4.%53"%5 7153
1 1C64H % 6"B@ G1C 2" =% 1 1C64H % "? %@ E163%@ 4"45 1C 34:C% !5 C"6% =% 1 1C64H % "2=46?'
1C 34:C% !5 .3% 63=C6 12%" !5 C"6% ":=' =%6"$$% 1$ 3=% 54"? 1C 3@ "6 1= 1331 "6 1= 1 @%65 "6

'. 3%6 %?1 '3=% 1..

$"H%63 %6 46?' "6 1H%63 % <" 51 ' 461 %33$ "6 "1 % '(E4?% ' 9 ":=3(1= ' 6HH@ 1= ' ' 6@?% " " 45 "3C5 1H%63 >>6%%2% E" "47' %6>1" 3 =46 %5' 'C 21 "H% 63=C6 C6 %6 =46 %5' %546 5% "16 1= ' ": : ' 3=1 @ 4641 ?' E" %7' 4@ 16 47%5 12<" : 31 ' 1= ' &%6643 1= ' 12< " :31 ' ; 1H% ' C %@ ' =" ">3 316%@ =46 %5 %546 .C "16 1H%63 =612<71631 ' !?F46?' "2<%6" :' 1= ' %? %@ % 6@ 5= %@ 7"3=' 1$ 4" 7 631 1H%63 E" "464(5 16 F4 "5(&64 2"5 46H@ "2=46?' _ @%6 =46 %5 =%>=%6?' !5 C"6%5 1= ' &%6646 1= "1F 4 :(E" "47' '6C6@ 1= ' 4 :%6 "?"46?' E" ?' 1H%63 46<%' 1= (5=261$3$ "2=46?' 43 %@ 4" %5 E6":=3 =1745 E6":=3 !?F46?' 451 ' 46<%' %F74 ' =1745 G" H%63 1= ' % 47@ !?F46?' =%2< @' E" "47' 1B$% 4F6% 2% 133 1= ' C3%6 E" "47' >4661F% 1:%6 % < 1 43=4 ' %4?' G" H%63 4 ' E" "47' E@%' 1H%63 %F53%6 1= ' 451 ' "71 ' 451 ' =1745 4@ % 1H%63 " 3%6 4F6% 2% =17>51 ' 1H%63 =17>5 =' "2=46?' 463%6 ' !?F46?K 4 :%6 =1745 C6:% =1745 %%3 "71 ' ! "133 1= ' 1= 51 ' !?F46?' 451 ' 1= ' 1F% (G% 3%7% f ' ' (' ' ' R

&16 3=%(1F % 1$ C 3" :?1 / (((

=% 4@16 $16 3=% 3"7%'H%" :' =% 1 1C64H % "? %..E163 %@ 4"?5 1C$334:C% !5 C'6?' =H' (H 1C64H % "2=46?' 1$3 34:C% !5 C"6% "6 "1 % ' E4?% ' 9 ":=3 1= ' ": :' 1= ' 12< " :$16" !5 C"6%5 "2=4$?(536%@ =1745 4 F@%6 15%>=' '46 1F' G%16:% %66"33 E" "4 B' '1F5% =1745 466"5K !?F46?' C?%@ =" ">' 1>%$ G% 3%7%

&16 ' 3=% 1C 3@ 1$'(9% 3

=1745 16?' &4"6$4I ' 461 ' 1$ 47%611 ' 1$' 3=% 9" :?17% 1$ 213 4 ?' =% 1 1C64H % %6%:6" % %63"% !5 C"6% "6 E" "47' F"5?% ' "6 =46 %5' "?%@ '1$ 373=$ %%3% "6 =1745 1H%63$ "6 =46 %5' "?%@ 1$ 4" 3 %46% "6 % 6@ 4 7%6 "6 G%16:% '" %65 "6 =1745 C>%>%"f "6 1= ' 9 432=HC ' "6 =" ">' 13% %6 "6 =1745 3" %5 "6 3%>=% ' %1 46?' "6 4`" ' ' "IF% ' "6 1= ' 4@ @' "6 E" "47' 1 @F1>?' "6 =1745 4 %5' "6 C7>=6%@ " 6 "6 G%16:% %"62% "6 1= ' <$ "6 43=4 "% ' 1F% ' "6 1= ' C53% ' "6 =1745 4@ 16 "6 =1745(% @46?' g"6(47%5K I% ?% ' 9 ":=3 4 ?' 461 %33' "6 1= ' &4:' "6 1H%63 &" 716% "6 1= ' =4F("6 1:%6 ' F"5?% ' "6 &64 2"5 4F %@' "6 G%16:% =1C3% "6 1= ' 16?4 3 "6 1= ' %3="%C "%6 "6 421H 53 %@' "6 &64 2"5 %4?' "6 E" "47' 11>%6 "6 !?E46?' %$3"51 ' "6 "2=4% ' "??1 >=' "6 E" "47' =1745 ?61 %33$ "6 &64 2"5(%":=' "6 E" "47'R 6"32=46?' "6 G%16:% C63"5 "6 =46 %5 "2<%$534$$% "6 % 6@ 15B" ' "3 "2=1 45 6"5>% "3 1H%63 &4C 2% "6 "2=1 45 11<% "6 =1745 C>%>%6 "6 1H%63 465=47' "6 15%>=' E" "4751>' "6 E" "47(4 :=13>% "6 E" "47' 11<%6K "6 C6H%2<% %7>% "6 :%6 11 ' 4@ "6 !?F" ' 3%%?' "6 G%16:% 11<% "6 !?F46?' G6?:16@' 9 ":=3$ 1 1 % ' 7"3=' "%C3% 4 3 1$ 1B%6 453 % =6"531>=%6 ?33% !?F43?' 1>%6 !?F46?' 4 %5 =1745 9 432=HC ' E" "47' E4$31]' =46 %5 7=%353 =1745 "?%6 E" "47' 47>"1 ' 4 %H' 4 <$ 1= ' %%2=' 1H%63 %F< %6 G"?%1 ' ' % 4C % G%16:% 46 42<>>?% ' "2=46?' 1FF43%6 E" H 7' 12<% =47' E" "47'

1@5 1$ 4F< 7653 E" "47' % ?% ' =6"531>=%6 E43%65 1= ' % %33 1= ' 133 %' 1H%63 C53% ' 1H%63 64F$16?' 47%5 453%65 1$ 4 :?% ' 1= ' 4@ %$ %6H%63 4 ?1>=' 1= ' 1@5 1= ' 7 ">(E""=47' 47 "1 ?' 47%5 =4?F"2<' E" "47' 9" :5%@' =6"531>=%6 " "$ E" "47' C6 %6K 47C%# =163 E" "47' $12<74 ' 1$ "32==1$1 :=' E" "47' 612<74 ' 1$(=%6"31 '(=1745(1@% =1745 4>" 1 ' &64 2"5 43=C653 E" "47' '% 4C % 47%5 % %>6:% %33@' E" "47' % H@D %16:% 1 =" ' 1= ' @?% 1= ' "2=% ' %3%6 '% 4 1@' E" "47' ?F163=' !?F46?' E@B ' 1="@ %66@' 4.16(G"HH1 ' 1= ' 11<% >H%63 G"HH1 ' =1745 5H16$3% 47%5K(%6H%63 4 >=' 3"$$$2" ' 1F@%6 %=? %@' ?1= ' 6%F%6 E" "47' 614? 4I' 4 >=' 433?%651=' 1= ' 42<%3 =1745 '4 "51 ' !?F46?' K C5316" E" "47' 4:% E3 <7' 4 ?%651 ' %@ 1?' 46<=47' E" "47' 1 @F11?' 1$! =47' 1= ' E" <" 51 ' "2=46?' G1?? >' K ?6%F' 6%F%$ 463=117%F' %4 (E" "47' 5=' =1745 4<%' =1745 4 %@ 1= ' ?@%' E" "47' & %%3%F11?' E" "47' "771 ?>' E"" 43=' " ' 1= ' 1 @' !?F46?' 46@' % %4:%D' '% 6%" :' 1= ' H4>"3' !?F46?' 64@$16?' E43%6' 11>%6 1$ 312<HC6@' 1= ' 9% 46?' !?71 ?' &1F %6 1C 34:C% '64<%' G 23$:% 4F@%65 E" "47' C::%55%"" ' %1 46?' ' ": :$ =1745 G17% 1 ' G%6646?' G16%' "2=145 11<%' G%16:% ! 212<' % 6@' I% ?% K 4>%31 ' 1$ =4 %33' % 6@ 4F %@' "2=46?' I% ?% ' %6H%63 47%6 & 163 %@' E=16F11?' % 6@ %%' 47%5 1??' 1H%63 %43=' 1= ' !B%@ ' !?F46?' C53% ' E" "47' 47H46?' E" "47' E" $2" 51=' =1745 47H46?' ="">>' 4$3=>17%E' G%16:% "$$16?' E" "47(43=C653 &64 2"5 &46 4H@ 4>=' %3%@ 1= ' C::% 5 1= ' 6%33 &"5=%6 ' 1H%63 C53% '(.C>" 6 %I4 ?%6 C>%>%6 =1745(9%66"$' %62"B4 463 1H%63 1 @F11?' "2=46?' 6%B16 1H%63 6"331 ' 1= ' " 2=' !?E46?' 6% 3 !?F46?' 9" :' !?F46?' G642%' &64 2"5 466" ' =1>"45 G"$3H6?' 1= ' 451 ' 1H%63 %?<% G%16:% C63 5 47%5 &1636@' 1= ' =C6H46 % %6.%4 3 433 4F' '1$316 =1745 4@16 4>34" % %33%3 1$ =4 %33 1= ' 1C63=1>% =1745 "55% 16?"5=' (4 ' =6"531>=%6 =>674 ' H64=47' 466"51 ' 6 1?' 9" :' ! "5 C 9$% 1H%63 1F' =" ">' 4>" 1 ' E" "47' % 74 ' &64 2"5 E43%674 ' G%16:% 21338 ' =46 %5 46:64B% " "47' 1 63=1>% (47""% ' K C77%6 E" "47' E="3% 1= ' 6"5>% 1:%6 4" % =1745(4>%31 ' !?F46?' C33 (% ' 465=' =1745 6%F%6 =1745 E45= 6 1H%63 "2=% ' %$$%6@ 1@5 47C% ' =4F' =1745 %@46?' =6"531>=%6 "5H ' !?F46?'$ 4 F46" :$ K' !?F46?' %33"51 ' !?F46?' 11<%' E" "47' 4 ?1>=' 1= (C>%>%6 =46 %5 9% ?6"2< = 45 465=' =$"74 ' %6%?"3=' C7>=6%@ 3" %5 "2=46?' C5% !?F46?' 4 %@ % .47" ' G1?$6%@ 1= ' 1 ?' E" "47' C6 %6 47=47' 1F% ' E" "47' 47%5 1= ' 17 " ' =6"531>=%6 451 'D!5 C"6%5 '1 16 E" "47' '%%?$ =1745 1F%6 1$ 5=$16?' E" "47' C::% ' !?" 46?' 1@5 1$ E" H161C:=' 4>34" % E43%65 % 6@ '%%?$ ' =1745 C6 %6 1= ' 9 1F %6 1$ 5>6" :% =% 4@16 1$ 12=%53%6 4 ?' 4"?531 % $16 3=%' 3"7% H%" :' '1$316 43 %@ % .47" ' 43 %@' 1= ' 117% =46 %5 &4:' 1H%63 4C ?%65 =1745 &4:' G%16:% E"3=F"2<' K =1745 6%33 E" "47' 6%33 1= ' ?%65%@' KG% 3%"" % ' =% C643%5 1$ 4"?531 % H%" :' C53"2%5 1$ 3=% %42% =1745 166"5 1= ' 1>>" ' 1$ %4 ' $" "43=' '"I1 ' 1= ' 7"3=' 1= ' 4661 ' 4 "%5 453%65 E" "47' >% 2%3 4>34" %' 1C33 B>%' G%16:% !U" 5 =1745 11<% 1$ 1HH" ' E" "47' " ?4 ' "2=46?' @71 ?$ &64 2"5 E=%% %6 611<%' 6"?:%5' = 6%5 %546 % 6@ 46<%6 !5 C"6%5 =% 4@16 1$ G64B%5% ?($16 3$"%K 3"7% H%" :' =6"531>=%6 E43%65 E" "47' C">%>%6 1=E

=0D % &‘ i ‘ ?9 + , #29*

=6"53 745 =1745 ="$$" 2=‘ i64=2"5K 6112<%5 &64 2"5 <%:.:‘ G%16: %‘. 43%6;]‘ G% 3 %7% ‘ 1= ‘ =4>" 4 ‘ 46 46?‘ i "5
1HF3 1 @ &%33%H642% 133 1= ‘ 4 ‘ 1$‘ 0C%%<$ " ‘ =4 %33‘ 1H%63 %% 4?(B"? ‘ ‘C>>4‘ %6‘ 7@ G6%:16@
47>51 ‘ 1C645 5 "%6%5 E " 7‘ E4351 ‘ 1= ‘ E4351 ‘ 1= ‘ 7"3=‘ 1$ %% 1= ‘ <" %6‘ Q=1745 $% %6‘ E=" "47‘
15B" ‘ G466%33 G4 4 3 &64 2"5 &‘ 2=‘ E " E " "47‘ E%4B%6‘ "2=46? i 4@‘ G%16:% %"62% 1H%63(4 611 ? 4 7C% ‘ E 112?
E " "47‘ %42% 1= ‘ 6@4 ‘ G%16:% =46 %31 ‘ ;E " "47‘ E112?@%6‘ 1H%63 1 ?% ‘ 1$‘ 4F<6"?:%‘ C 2% >% 2%6
$"1745 C 7 7%6‘ =1745 4 "%6% &% "!‘ 42?F% ‘ %3%6‘ =16 ‘ H64=47‘K >11 %&‘G% 3 %7% ‘ =% 4" ‘"3% 1$‘ 17 %@
465=‘ $16 3=% 3"7% H%" :‘ =% 4@16‘ 1$ 0 %% H16?C:‘=‘ 4 ? C53"2%5 1$ 3=% %42% $16 3=% 3"7% H%" :‘ %$$%6@
(7=C653 1$ "@%6=%4? E " "47‘ ‘64>% ‘ E " "47‘ i7%631 ‘ i5 C"6%5 "2=1 45 7"3= .B7"16 G" H%63 1F"%6‘ 1$ %6 %
E " "47‘ 43%5 1$ G64B%5% ? G% 3 %7% ‘ ‘

‘ ‘ &16‘ 3=% "3@‘ 4 ? 1C 3@ 1$(3=% "3@‘ 1$ 4 3%6HC6@‘ ‘
‘ 1="‘ 6‘2<% ?% ‘ i5 C"6% 4@16‘ %6H%63 4 ?1>‘= i5 C"6% %216?6% "6‘ E " "47‘ 1 @F11? 461 %33 % 6@
%%‘ 1= ‘ 451 ‘i?F46? C33 %$%6@ 1@5‘ E " "47‘ C6 %6 " ""47‘ 1C63H1>% i5 C"6%5 =1745‘\ 4@ 16;]‘ ‘1$316‘ 1$
4F% 1H%63 1 @ 1= ‘ 46<% ‘1$165‘\""";]‘ =" "2< E " "47‘ E4351 ‘G% 3%74 ‘ =1745 &"?:% =1745 9 1F %6
"2=1 45 "2=1 51 =1745 ‘C <" ‘ E " "47‘ G" H%63 1= ‘ GC46 "6":‘ C"6% %B%631 ‘ % 6@ G"HH5‘ &64 2"5 %$$%6@
% 6@ E4??% ‘ 1= ‘ 6>%‘ U33="45 G6%@‘ ?%6 7% ‘ 4>34" % 46 4C% ‘ 64 % 4>34" % >= ‘ 61F " :

;‘ &16‘ 3=% 1F % 4 ? 163‘ 1$‘ ‘1B%6/

(‘ =% 4@16 4 ? (C643%5 $16 3=% 3"7% H%" :‘ =17 45 4>" ;‘ 47%5 = ?F"1< i5 C"6%5 R "6‘ H64=47‘ 421H
&6%?%"2$2% ?% C"2<‘ 1= ‘ 451 ‘ =" ">>‘ 16<% 1H%63 421H H64=47‘ 312<‘ =1745 4F163=‘ 43=4 "% ‘ ,%="F
G% 3 %7% (=1745 %? :$%" ? >F % %6<%)‘ ‘ W W

‘ (‘
&16‘ 3=% 1F % 4 ? 163‘ 1$ 4 ?F"2=‘ f‘

‘ =%‘ 4@16 4 ? C64 %5 $16 3=% 3"7% H%" :‘ 1= ‘ =C6H46 %‘(%.%4 3 433 4F%‘ i?F46? 6% 3 i5 C"6% "2=46?
=F<%6 1F % %6<%f‘ ‘ (‘ ‘
‘ ‘ &16‘ 3=% 13B % 4 ?L 163 H$ %F‘ 17 %@/ ‘
=%‘ 4@16‘ $16‘ 3=% 3"7% H%" :‘ 1= ‘ 452=4 ‘ 3=% i ?%6‘ %3%6‘ 463% ‘ "2=46? 4<%6‘ 1= ‘ =4C <%6‘ 1=
‘ ‘ ‘ ‘ ‘ ‘ ‘ ‘
1674 ‘ E " "47‘ &" 2=‘ C643%5

&1G 3=% 1C 3@ ,' %"2%53%6f

=% 46 C%55 1$ 463" :3133 1 % 4 ? %"6%(>>46% 3 31' 3=% ' C<% 1$ %B1 5=%"6% 1= ' 16? 155% 1 %
4 ? %"6% >>46% 3 31' 3=% i46 % 1$ C3 4 ? =17 45(16? %4C71 3 1$ 3=% 9" :217 %'1$ 6% 4 ? % %33 16?
=%6646? 1$ $=% 9" :217 % 1 ' 6% 4 ?; =% ":=3 1 1C64H % 16? E" "47' 4E %33 ? 21= % 31' 3=% ' C<%
1$ 1 31 ' =% 1 1C64H % 1= ' 1% # i5 C"6% =% 1 1C64H % 1H%63 ="6 %@ i5 C"6% =% 1 1C64H % % %4:%
&" 2=' i5 C"6% "6' E " (" %65 "6 =1 745 (4%<F163=' "6 =H 45 %5%6 "6:' "6 C53" "4 ' 5=47' "6 G%16:%
%4C71 3 "6 E " ' 4 $16? "6 E1 53 ' ,"I@ "6 I?FE46? C?51 "6 I?FE46? 7"3=' "6 1= ' 1% ' "6 E" "47'
i "5 "6 "2=46? %F?:43% "6 1H%63 ',45=F11? "6 2611>% 1F 461 %33$ "6 "" "47' 4F "=51 ' "6 i?3@46?
H %@ "6 i?FE46? E": %@ "6 7H615% =" ">5 "6 E". "47' 16<% 9 ":=3$ 1= ' %6 %@ (= 745 113=H@ "2=46?
"53%6' 5% "1@ 1= ' ; 4 &1C 34" % G%16:% %F"$ 1H%63 %5% 6":' 5% "1@ 4" 3 1 " ' % %33 =46 %5 166"5 G%16:%
12=" ' =1745 12=" 12=" ' E" "47' 36%%3% 1:%6 1F 1:%6' 7.3=' E" "47' 1 E" "47' "6? 1$
%@H611<% 433=%F' 1= 51 ' %6<% 1$ 3=% \ 46 "47% 3$]' G%16:% 5=H@ 1= ' E" 51 ' % 6@ G" H%63(1H%63
%5% 6":' .C "1@ E" "47' %551 =1745 4HH" :31 ' E" "47' 4631=' i?FE46? C?51 ' % 6@ C6 %6' G" H%63
"2<%6" :' 47%5 E" 534 %@ i?FE46? 7"3=' =1745 &"%' E" "46 43%6@ E" "47' 4F?% 1= ' 43C5 E" "47'
61F % i?F46? 1 @%65 62=?24 % ' 4 7%6' 1= ' =31 ' i?F46? %%?=47' =1745(%F"5 ' 34 =1>% E=4 %@'
43=4 ' E 6":=3 E" "47' 113=H@ 1= ' % %33 47%5 4 54 ' =1745 4@%5 =46 %5 % " :$ "2=46? "53%6
.C "16 6@ % " :=47' =1745 4$31>' E" "47' 5=H@' =1745(<%" :31 61 "% %$%6@ 4 7%6' 1= ' =16 =4:='
=1745 1?%214$% =1745 E" "51 ' ,1C 4 ' ,1B% % 6@ 453" :$ =6"531>=%6 42<' E" "47';&4C 3 1= ' E" <" 5
% 6@ 9% ?4 ' E" "47' E11 4531 ' E" "47' E=4 %@' 1= ' 4.16 1= ' %H@(47%5 67%531 ' =1745 =46 4 $
D "2=4%' E6":=351 ' G% 3 %7 % ' $64 2"5 C ?@ =1745 H %@' G% 3(E" "47' 4F<" 5 1= ' 3%%' 47C% ' 1331 '
E" "47' &64 <' =1745 1H % G% 3 %7 % ' "2=46? 614?:43% 4F6% 2% 4636%6 3%>=% ' %6B%@' E" "47' %"H6":?:%
E" "47' %66"2<% E" "47' % :$4B4' 5% "16 E" "47' %6B"5 433=%F' @71 ?$ i5 C"6%5 "2=46? E4 <%6 %1 46?
1F' =1745 6C74 ' IB%64g? G11?74 ' "36" :=47'; 3%>=% 5 G% 3 %7 % ' E" "47' 3<" 5' i5 C"6% 1= ' 1 %5 '
1H%63' &6%%74 ' =1745 ?6%FE5 E" "4 " "%65 E" "47' %6<% 1$ %@ i?FE46? 1 3 .C "16 "2=46? %62"B4 ' 1$ %@=47'
=46 %5 %":=' E" "47' 4@=C65' "2=1 45 ":H@ i?FE46? 1 3 .C "16 "2=46? %62"B4 ' 1$ @?%' 47C% ' 4 1F%5
i?7 /' :?% % .47" ' & %32=%6 G% 3f =% 4@16 %67 % ' 4 ? 4" " &$ 1$ 4 245%6 $16 3=% 3"7% H%":' =46 %5
":H@' i5 3 6% 1= 46 %31 ' =1(%224 $% G%>3(' 43=4 ' H64=47' 1= ' %2=' 1= ' 61131 ' G%16:% G1C H1C6 %
=1745 43=6% G% 3/ =% 4@16 ?%67 % ' 4 ? 4" " &$ 1$ 3=% 16?1C:=' 1$ 6%531 ' $16 3=% 3"7% H%":' .6
1C:=31 ' 1= ' 175=1 ' 1H%63 1F?5 %@ 4 >=' "B%5%@ =1745 613=%631 ' 47C% ' %:4@ "2=46? %62"B4 '
"2=1 45 346<%@' =1745 "2=46? i 3F"5 % \ %63"% i 3F"5]' "2=46? & %3%F112' >H%63 @?% 1$ ' % 31 '
1= ' 5=31 ' 1= ' @617% =1745 433% ' =1745 %.'%4 3 1$ "<" :31 ' "2=46? 1 :F163=' 1 43=4 ' 42<H1C6 %
1= "47' 6% 4 ? E" / =4F' 1= ' &64 "<$ G% 3' K3=% 4@16' %2162%6 ?%67 % ' 4 ? 4" "$".$ $16 3=% 16?1C:= '
1$ E":.4 ' $16 3=% 3"7% H%":' i?FE46? %6 % i C"6% =%' 3%F46?$ 1$ 3=% 16?1C:=' 1$ %F31 ' $16 3=% 3"7%
H%":' G%16:% %":=' 1F?% ' =%' 4" " &$ 4 ? %216?%6' $16 3=% 16?1C:=' 1$ "3=%61% $16 3=% 3"7% H%":'
' 63=C6 5=31 ' 1H%68' 2 43%6 i?7 ? 1H" 51 ' 1= ' E %H53%6' E" "47' ??@ 45>%6 4C?"3 i5 C"6%5 E" "47'
E" "4751 ' ?%6 74 ' =1745 1= 51 ' 5% "16 1= ' % 7H%631 ' 5% "16 %3%6' 3=%631 ' 1= ' 1 " %CI' E" "47'
6%%51 ' 1= ' 4 ?"$16? G% 3(1= ' 5=31 ' i5 C"6%f

%14 ?%6' ":H@' 4F6% 2% 4F5316 ' % 6@ "31 ' =1745 642??" ' 47%5 ":=3H1 % 1= ' i 3F"5 % =6"531>=%6
46<%6 =1745 '1??' =1745 5==C65 47%5 ' C2<% $%" ?' 1= ' 1>F112? 15=C4 1631 ' 15%>=? 43%5' i?FE46?
":H@' .'1745 ":H@' %33%6 =4<%6 %@(1:%6 9% @1 ' &64 2"5 @ %@' %3%3 i:%631 ' E" "47' C 7%' 1= ' 64??" '
E" "47' 9"6<H@' 1= ' 4@%5 1:%6' 116 % i?FE46? E" 51 ' " %5 4 ?@5 1= ' &% F"2<' =1745 =%651 ' % .47" '
&" 2=' i5 C"6% "6' E " ' 4 $16? "6 E1 53 ' ,"I@ "6 I?FE46? C?51 "6 I?FE46? 7"3=' "6 1= ' 1% ' "6 E" "47'
%4C71 3 "6 E " ' 4 $16? "6 E1 53 ' ,"I@ "6 I?FE46? C?51 "6 I?FE46? 7"3=' "6 1= ' 1% ' "6 E" "47'
i "5 "6 "2=46? %F?:43% "6 1H%63 ',45=F11? "6 2611>% 1F 461 %33$ "6 "" "47' 4F "=51 ' "6 i?3@46?
H %@ "6 i?FE46? E": %@ "6 7H615% =" ">5 "6 E". "47' 16<% 9 ":=3$ 1= ' % 6@ (= 745 113=H@ "2=46?
"53%6' 5% "1@ 1= ' ; 4 &1C 34" % G%16:% %F"$ 1H%63 %5% 6":' 5% "1@ 4" 3 1 " ' % %33 =46 %5 166"5 G%16:%
12=" ' =1745 12=" 12=" ' E" "47' 36%%3% 1:%6 1F 1:%6' 7.3=' E" "47' 1 E" "47' "6? 1$
%@H611<% 433=%F' 1= 51 ' %6<% 1$ 3=% \ 46 "47% 3$]' G%16:% 5=H@ 1= ' E" 51 ' % 6@ G" H%63(1H%63
%5% 6":' .C "1@ E" "47' %551 =1745 4HH" :31 ' E" "47' 4631=' i?FE46? C?51 ' % 6@ C6 %6' G" H%63
"2<%6" :' 47%5 E" 534 %@ i?FE46? 7"3=' =1745 &"%' E" "46 43%6@ E" "47' 4F?% 1= ' 43C5 E" "47'
61F % i?F46? 1 @%65 62=?24 % ' 4 7%6' 1= ' =31 ' i?F46? %%?=47' =1745(%F"5 ' 34 =1>% E=4 %@'
43=4 ' E 6":=3 E" "47' 113=H@ 1= ' % %33 47%5 4 54 ' =1745 4@%5 =46 %5 % " :$ "2=46? "53%6
.C "16 6@ % " :=47' =1745 4$31>' E" "47' 5=H@' =1745(<%" :31 61 "% %$%6@ 4 7%6' 1= ' =16 =4:='
=1745 1?%214$% =1745 E" "51 ' ,1C 4 ' ,1B% % 6@ 453" :$ =6"531>=%6 42<' E" "47';&4C 3 1= ' E" <" 5
% 6@ 9% ?4 ' E" "47' E11 4531 ' E" "47' E=4 %@' 1= ' 4.16 1= ' %H@(47%5 67%531 ' =1745 =46 4 $
D "2=4%' E6":=351 ' G% 3 %7 % ' $64 2"5 C ?@ =1745 H %@' G% 3(E" "47' 4F<" 5 1= ' 3%%' 47C% ' 1331 '
E" "47' &64 <' =1745 1H % G% 3 %7 % ' "2=46? 614?:43% 4F6% 2% 4636%6 3%>=% ' %6B%@' E" "47' %"H6":?:%
E" "47' %66"2<% E" "47' % :$4B4' 5% "16 E" "47' %6B"5 433=%F' @71 ?$ i5 C"6%5 "2=46? E4 <%6 %1 46?
1F' =1745 6C74 ' IB%64g? G11?74 ' "36" :=47'; 3%>=% 5 G% 3 %7 % ' E" "47' 3<" 5' i5 C"6% 1= ' 1 %5 '
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i?7 /' :?% % .47" ' & %32=%6 G% 3f =% 4@16 %67 % ' 4 ? 4" " &$ 1$ 4 245%6 $16 3=% 3"7% H%":' =46 %5
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1C:=31 ' 1= ' 175=1 ' 1H%63 1F?5 %@ 4 >=' "B%5%@ =1745 613=%631 ' 47C% ' %:4@ "2=46? %62"B4 '
"2=1 45 346<%@' =1745 "2=46? i 3F"5 % \ %63"% i 3F"5]' "2=46? & %3%F112' >H%63 @?% 1$ ' % 31 '
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' 63=C6 5=31 ' 1H%68' 2 43%6 i?7 ? 1H" 51 ' 1= ' E %H53%6' E" "47' ??@ 45>%6 4C?"3 i5 C"6%5 E" "47'
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%14 ?%6' ":H@' 4F6% 2% 4F5316 ' % 6@ "31 ' =1745 642??" ' 47%5 ":=3H1 % 1= ' i 3F"5 % =6"531>=%6
46<%6 =1745 '1??' =1745 5==C65 47%5 ' C2<% $%" ?' 1= ' 1>F112? 15=C4 1631 ' 15%>=? 43%5' i?FE46?
":H@' .'1745 ":H@' %33%6 =4<%6 %@(1:%6 9% @1 ' &64 2"5 @ %@' %3%3 i:%631 ' E" "47' C 7%' 1= ' 64??" '
E" "47' 9"6<H@' 1= ' 4@%5 1:%6' 116 % i?FE46? E" 51 ' " %5 4 ?@5 1= ' &% F"2<' =1745 =%651 ' % .47" '
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i "5 "6 "2=46? %F?:43% "6 1H%63 ',45=F11? "6 2611>% 1F 461 %33$ "6 "" "47' 4F "=51 ' "6 i?3@46?
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12=" ' =1745 12=" 12=" ' E" "47' 36%%3% 1:%6 1F 1:%6' 7.3=' E" "47' 1 E" "47' "6? 1$
%@H611<% 433=%F' 1= 51 ' %6<% 1$ 3=% \ 46 "47% 3$]' G%16:% 5=H@ 1= ' E" 51 ' % 6@ G" H%63(1H%63
%5% 6":' .C "1@ E" "47' %551 =1745 4HH" :31 ' E" "47' 4631=' i?FE46? C?51 ' % 6@ C6 %6' G" H%63
"2<%6" :' 47%5 E" 534 %@ i?FE46? 7"3=' =1745 &"%' E" "46 43%6@ E" "47' 4F?% 1= ' 43C5 E" "47'
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.C "16 6@ % " :=47' =1745 4$31>' E" "47' 5=H@' =1745(<%" :31 61 "% %$%6@ 4 7%6' 1= ' =16 =4:='
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% 6@ 9% ?4 ' E" "47' E11 4531 ' E" "47' E=4 %@' 1= ' 4.16 1= ' %H@(47%5 67%531 ' =1745 =46 4 $
D "2=4%' E6":=351 ' G% 3 %7 % ' $64 2"5 C ?@ =1745 H %@' G% 3(E" "47' 4F<" 5 1= ' 3%%' 47C% ' 1331 '
E" "47' &64 <' =1745 1H % G% 3 %7 % ' "2=46? 614?:43% 4F6% 2% 4636%6 3%>=% ' %6B%@' E" "47' %"H6":?:%
E" "47' %66"2<% E" "47' % :$4B4' 5% "16 E" "47' %6B"5 433=%F' @71 ?$ i5 C"6%5 "2=46? E4 <%6 %1 46?
1F' =1745 6C74 ' IB%64g? G11?74 ' "36" :=47'; 3%>=% 5 G% 3 %7 % ' E" "47' 3<" 5' i5 C"6% 1= ' 1 %5 '
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=46 %5 %":=' E" "47' 4@=C65' "2=1 45 ":H@ i?FE46? 1 3 .C "16 "2=46? %62"B4 ' 1$ @?%' 47C% ' 4 1F%5
i?7 /' :?% % .47" ' & %32=%6 G% 3f =% 4@16 %67 % ' 4 ? 4" " &$ 1$ 4 245%6 $16 3=% 3"7% H%":' =46 %5
":H@' i5 3 6% 1= 46 %31 ' =1(%224 $% G%>3(' 43=4 ' H64=47' 1= ' %2=' 1= ' 61131 ' G%16:% G1C H1C6 %
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1C:=31 ' 1= ' 175=1 ' 1H%63 1F?5 %@ 4 >=' "B%5%@ =1745 613=%631 ' 47C% ' %:4@ "2=46? %62"B4 '
"2=1 45 346<%@' =1745 "2=46? i 3F"5 % \ %63"% i 3F"5]' "2=46? & %3%F112' >H%63 @?% 1$ ' % 31 '
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' 63=C6 5=31 ' 1H%68' 2 43%6 i?7 ? 1H" 51 ' 1= ' E %H53%6' E" "47' ??@ 45>%6 4C?"3 i5 C"6%5 E" "47'
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4.%53"%5 1"2"316'G% %64'" =%' 1 1C64H % =46%5' 1C 34:C% =%'8;' 1 1C64H % !?F46?' C55% !5 C"6%5' "6 47C% '
46 46?"531 ' "6 1= ' 16?% 3' "6 % .47" ' @1$"% "6 % 6@' 5==C$53' "6 "2=145' 6"5$"% "6 =1745' 1>% 1C 3'
"6 1H%63' "2=' "6 2611>% 1F' "6 E" "47' %"6 71 ' "6 E" "47 E" "475' "6 E" "47' 11>%6 461 %33$ "3'
=1745' 46:%5' "6 =1745' %6$"1 ' "6 47%5' 7"3=' "6 % .47" ' %F 4 ?' "6 433=%F' ?6%F5' "6 E" "47' C55% '
"6 1= ' %3="%C "%6' "6 1H%63' ?475' ("6 %6%7"4=' 47H611<% "6 =1745'(4F" 51=' "6 =1745' "33%31 ' "6 '
1H%63' 1C3=F% ' "6 =1745' 4" 3' G%16:%' "6 "2=46?' 4@ %5' "6 =46%5' %?:%5' "6 4`" '&"6%H642%' "6 G4H6"%'"
1H%63$' "6 15%>=' %6 % m"6 "2=>?' 4??12<' "6 3%>=% ' !B4 2%' "6 1= '&12=%' "6 %3%6 464B42" % "6 1= '
1>% "6 =1745' '4 4 ' "6 E" "47' E1:4 ' "6 1F 4 ?' @ 5F163=' 9" ":=3$' "6(%1 46?' 1H" 51 ' =47H%6 4" %
"6 1= ' "%5' "6 % 6@&C6 42%' "6 E" "47' 24F% ' 9 ":=3$' 1H%63' 46%@' =1745' 4>" 1 ' 1= ' 166"5' =1745'
&6%?%6"2<' !5 C"6%5' '1$316' % 6@ %F31 ' =4 %% 16' 1$' 1 ?1 ' 1= %66@' =1745' E%53%6 ' 1= ' 1 @%65' E" "47'
361 :% !5 C"6%5' E" "47' =47>"1 ' 43=4 "% ' 4F%5' "2=145' \=]46%31 ' E" "47' 11<%6 %1$$%6@' %$$%6@%5' 1= ' '
%$$%6@%5' =46%5' =47H%64" % "2=46?' .>' 1= ;' "2=1 $' 63=C6' 461 ' =46%5' 'C217H' '4 "% ' =%?1 '
3=1 @' 3C63' =1745' 4 '!?F46?' 46<% &113' 51F' &64 2"5' %66@' =46%5' %6:"51 ' '4 "% ' "??4 ' 1= ' " '
47C% ' %33' =1745G1??46?' E" "47' B433' 43=4 "% ' 16 %H@' 1H%63' 1??" :31 ' &64 2"5'(G15$6":=3' =1745'
@?%6' !5 C"6%5' % 6@' C 3%6' E" "47'&4`4<%6 %@' 1= ' E%53' G1?$6%@' E11?F46?' =1745' 64 % E" "47' 46>% 3%6'
E" "47' %F% ' E" "47 GC ' C7>=6%@'\' $61C?]' 1H%63' 64HC6 % G%16:% 1% 47%5 %7% 3' !?71 ?' 6"?%4CI'
"%C3% 4 3' 1 1 % ' %462% =1745' =%>% % 6@' 6"5>% "2=46?' 6"531F% 47C% ' 61374 ' E" "47' 1H" 51 '
=? 45' &"67" ' =1745' 151 ' G6:16@'(9" :' % 6@' '%3="2<%' 'H2 16' G%16:%' I% ?% ' 47C% ' =%>46?G%16:%'
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47C%$ (177%6$16?' %3%6' & 1@%6' =1745' G46?%6' G%16:%' G11?4@' %3%6' 1@' E" "47' : %3$' E" "47' E"3=%65'
=1745' 42<716%' %62"B4 ' G" H1C6 % "2=145' =4>" ' 1= ' 9 4>>' E" "47' &4C< %6' 1= ' G% %F' &64 >"5'
=47H%64" % E" "47' E11?61$$%' 1= ' "?:%%@' 47%5' 4?%5' G%16:% %F4 ?' =1745' 4 :=47' '4 "% ' % '
E" "47' 466%33' &64 2"5' '45=E11?' 1= ' &6%%74 ' 63=C6' 34B%%@' "2=46?' 64 12<' G%646?' 1 @%65' 47C% ' 46<%'
1= ' 166"2% 5442' 1CH1 ' "2=46?' _1 ' %6H%63' @F@ ' =1745' %7% "2=46?' %6H%6@ =1745' 1<%$%"?'
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C>%63' 61F % 47%5' E11?$' 47%5' &1F %5' 47%5' !431 ' 15%>=' 16 %H@' "2=46?' "2<1 $' 1H%63' 4F163='
&64 2"5' 6%6%F11?' "2=46?'G11?4 ' =1745' 43%6' 47C% ' : %H@' "2=145' H %33' 2=46?'!?71 ?51 ' G%16:%(%2<'
=46%5' 4 ' "2=46?(E@ %' %3%6' % %C' &% "I' 4B%63' "2=46?' 1?' 63=C6' =4 133' "2=46?' GF@ %'G" H%63'
%43=Y133' "2=4% ' G1?$6%@ 1= ' 6@' =46%5'G1?1>=" ' G%16:%' "2=145' !?F46?' % <" 51 ' 1= ' 46B%@' E" "47'
E4<%6' 1= '9 ":=3' % 6@' 16 "5=' "2=46?' C32=" 51 ' (1= '\ 45 17;.]' =1745' 463" ' 15%>=' E6":=3' 46<% 364331 ' '
3=1 @' C6 @' E" "47'&1F %5' E" "47' 1= 51 ' =1745' >% 2%6' 1= ' "33% 1= ' E46?' 47C% ' 1@5316 % =" ">>'
$ %>" 1 K]' !?F46?' !36"2<%' "2=;46?' %6HC6@' =1745' !6 %5' 1= ' 64B" ' %I4 ?%6' 421H' 433=%F' C7H%6531 %
43=4 "% ' G6%%B%5' 47C% ' 12<' 1H%63' 11<%5' 43=4 "% ' %6 % 47C% ' G466%33' 1= ' 4 ?' 1= ' C :%6$16?'
47%5' C ?@%' 'C 2C5' '%%' =46%5' =161?' =1745' !@6%5' 47%5' 1 %33' &64 2"5' =C65$%" ?' 1= ' 16:4 ' 47C% '
34 %"6' !?F46?' C?:%' 1= ' !C6%' E" "47' 3%%?F"2<' 43=4 "% ' 31C631 ' 11 % ' E" %33' 63=C6' 116% 1= '
46:64B%' 1= ' ?HC6@' 1= ' '%42%' =1745' E% 3%6 % .C "16' =1745' C??1 ' &64 2"5' %"51 ' 5% "16' 4>='
4 %' 1= ' &6%%74 ' (G4H6"%'" 1H%63$' "2=46?' 42<=47' E" "47' %?:%F"2<' C53% ' 4 1F' %I4 ?%6' ":H@'
1:%6' '64<%' 1= ' >31 ' 6"5' 4C:=3%6' 47%5' '% %F' =1745' C :"%6' =1745' C?F163=' !?F46?' G642%
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1= ' 7"3=' 1= ' 4:%' "6 1C?%5 %@' =1B% ' 9 ":=3' !?71 ?' '6C77%6' =1745' E" 35=%"6%' G%16%' 4" 3' 1%'
!5 C"6%5' "2=46?' 1F43%6' ?475' 4 %33' % 6@ 43%@' !?F46?' 6%F53%6'(E" "47' 61C:=31 ' =1745' !B4 2%' "2=145'
4<%6' %3%6' 1CH1 ' 1= ' =%6H611<%' =1745' G46?%6' =@6C6:%1 ' E" "47' 4<%6' %3%6 'C24 % 15%>=' =17>51 (
1H%63' C 12<' ; "6' E43%6' 1C :' ' 47%5' =4?F"2<' 47C% ' 46<%' !5 C"6%5' "6 4`" ' '"IF% ' !?F46?' 455% '
!?F46?' 1% ' =1745' 61 %' 1= ' =17>51 ' "6 "2=46?' 4??12<' 9 ":=3' !?F46?' 'C7%6' =46%5' 46:451 '
'% "5' "??% ' 47C% ' %33' !5 C"6%' 1= ' 16 % G4H6"%'" G1B%6' =1745'&6@%6' 1= ' 342@' E" "47' "2=46?51 '
!(?F46?' C ' %3%6'G1?$6%@' 1= ' C $16?' '%>C3@' 1= ' 46?6%33' '%>C3@' '4 "% ' '16B" ' C53C5' .. 6:46]' 1H%63' E="3%'
3=1 @' C66% ' ?6%F'&64 <@ ' E" "47' 1 @' "2=46?' G1B%6' C:C53" ' 4 1F' % 6@' 43%' =1745' 42<71"f%'
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&16' %6.%313$' ' " ' & %%3%536%%3%/

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"6‘ 1= ‘ 13‘ 16?‘ =%"$%‘ C53"2%‘ 453%6‘ C53"2%‘ %B" ‘ 453%6‘ C53"2%‘ 1F% ‘ 453%6‘ C53"2%‘ G6%:16@‘ 453%6‘ C53"2%‘ G"%5‘ !@6%5‘ 453%6‘ 461 ‘ 1F% ‘ 453%6‘ C53"2%‘ 47C% ‘ !@6%5‘ 453%6‘ %6.%4 3‘ E1:4 ‘ 453%6‘ %6.%4 3‘ Z $+‘ 453%6‘ %6.%4 3‘ G%16:%‘ 361?%‘ 453%6(%".%4 3‘ =1745‘ 361?%‘ 453%6‘ %".%4 3‘ @62=‘ 453%6‘ %6.%4 3‘ 1B% ‘ 453%6‘ %6."%4 3‘ =C6H46 %‘ ‘ ‘ (‘ (!

&16‘ 3=% %6‘ %7>3,‘ 4 ?‘ 3=% 5 1$‘ =4 2%6@‘ 3=%6%31‘ H% 1 :" :/

=%‘ ":=3‘ 1 1C64H%‘ "6‘ 1= ‘ 6%B16‘ 9 ":=3‘ >%4<%6‘ 1$‘ 3=%‘ 1 1C64H%‘ 1C5%‘ 1$‘ 171 5‘ 453%6‘ 1$‘ 3=% 1 $‘4 ?‘ 1 %‘ 1$‘ "5‘ 4.%53"%5‘ 7153‘ 1 164H%‘ 6"B@‘ 1C 2% ‘ "6‘ !?F46?‘ E46?‘ 9 ":=3‘ "5‘ 4.%53"%5‘ 3316 %@‘ G% %64 "‘ "6‘ =1745‘ 6%B16‘ 9 ":=3‘ "5‘ 4.%53"%5‘ 1 "2"316‘ G% %64 "‘ E" "47‘ &46646‘ !5 C"6%‘ "6‘ 43=4 "% ‘ 1F% ‘ 461 %33‘ 3F1‘ 1$‘ ".‘ 4.%53"%5‘ %46 %?‘ 1C 2" # " ‘ 3=%‘ 4F%‘ =%‘ 1 1C64H%‘ % %4:%‘ &" 2=‘ !5 C"6%‘ =1745‘ &46646‘ 1= ‘ 15@%6‘ 4 ?‘ 3=%‘ 6%53‘ 1$‘ 3=%‘ % 2=%65‘ $16‘ 3=%‘ 3"7% H%" :‘#

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=%‘ ":=3‘ 1 1C64H%‘ "6‘ 1= ‘ 177%65‘ 16?‘ 9%%>%6‘ 1$‘ 3=%‘ G6%43%(%4%‘ 1$‘ ! :4 ?‘ "6‘ E" "47‘ E="3 12< 9 ":=3‘ "6‘ &64 %"5‘ E" " :31 ‘ 9 ":=3‘ "2=46?‘ E4 1> !5 C"6%‘ 1:%6‘ G" " :=47‘ !5 C"6%‘ 1F‘ 6%45C6%6‘ 1$‘ 3=% 54"?‘ "?? % %7>% 4 ?‘ 3=%‘ 6%53‘ 1$‘ 3=%‘ % 2=%65‘ 1$‘ 3=%‘ 54"?‘ 12"%3@/

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=%‘ ":=3‘ 1 1C64H%‘ "6‘ 1= ‘ 6%B16‘ 9 ":=3‘ >%4<%6‘ 1$‘ 3=%‘ 1 1C64H%‘ 1C5%‘ 1$‘ 171 5‘ 453%6‘ 1$‘ 3=% 1 $‘4 ?‘ 1 %‘ 1$‘ ‘ "5‘ 4.%53"%5‘ 7153‘ 1 1C64H%‘ 6"B@‘ 1C 2" ‘ =%‘ ":=3‘ 1 1H%‘ "6‘ 3%>=% ‘ &1I‘ 9 ":=3‘ =46 %5‘ 1C 34:C%‘ 4 ?‘ 1= ‘ 7"3=‘ !5 3 6%5‘ 16?$‘ 1" "55"1 %65‘ 1$‘ "5‘ 4.%53"%5‘ 6%45C6@‘ =46 %5‘ 16?‘ %6H%63‘ 4$ C% 5%‘ 1$‘ E162%53%6‘ 1 %‘4 ?‘ %"6%‘ 4>>46%‘3‘ 1$‘ "5‘ G642%‘ 3=%‘ ' C<%‘ 1$‘ %4C$163‘ =%‘ ":=3‘ 1 1C64H% !?F46?‘ ‘ 16?‘ C55% ‘ 4 ?‘ 47%5‘ 16?‘ C55% ‘ 1 5‘ 31‘ "5‘ G642%‘ 3=%‘ ' C<%‘ 1$‘ %?$16?‘ =46 %5‘ 16?‘ =4 %@‘ 1$‘ 3=% 9"" :?17%(1$‘ 213 4 ?‘ =%‘ ":=3‘ 1 1C64H%‘ % 6@‘ 16?‘ 164" %‘ 1$‘ 3=% 9" :?17%‘ 1$‘ 6% 4 ?‘ =%‘ ":=3‘ 1 1C64H% G%16:%‘ 16?‘ "521C 3‘ 45$%31 ‘ 1$‘ 3=% 9" :?17%‘ 1$‘ 6% 4 ?‘ =%‘ ":=3‘ 1 1C64H%‘ "6‘ 1= ‘ 13‘9 ":=3‘ U3?‘ =%"$%‘ C53"2%‘ 1$‘ "5‘ 4.%53"%5‘ 1C63%‘ 1$‘ 9" :$‘ % 2=‘ =%‘ ":=3‘ 1 1C64H%‘ "6‘ G%16:%‘ 6%H@‘ 9 ":=3‘ 16?‘ =%"$%‘ C53"2%‘ 1$‘ "5‘ 4.%53"%5‘ 1C63‘1$‘ 171 ‘ %45‘ =%‘ 17"55"1 %65‘ 1$‘ "5‘ 4.%53"%5‘ !12"5%‘ $16‘ 3=% 3"7% H%" :‘ =%‘ 17"55"1 %65‘ 1$‘ "5‘ 4.%53"%5(G6%% 13=‘ $16‘ 3=% 3"7% H%" :‘ =%‘ 1 1C64H%‘ "6‘ 1H%63‘ 1F46?‘ =%‘ 1 1 64H%‘ % 6@‘ 4:%33‘ !5 C"6%‘ =%‘ 1 1C64H%‘ 64B% ‘ 1F46?‘ =%‘ 1 1C64H%‘ !?F46?‘ 1C 34:C%‘ =% 1 1C64H%‘ % 6@‘ 6%"53 74 ‘ =%‘ 1 1C64H%‘ =1745‘ %F>163‘ =%‘ 1 1C64H%‘ %6%:6" %‘ %63"%‘ =%‘ 1 1C64H%‘ 47%5‘ %63"%‘ =%‘ 1 1C64H%‘ 1H%63‘ ="6%@‘ =%‘ 1 1C64H%‘ 1H%63‘ %63"%‘ =%‘ 1 1H%‘ =46 %5‘ % %33‘ !5 C"6%5‘ =%‘ ":=3‘ 1 1C64.%‘ "6‘ 1= ‘ 6% 2=463‘ 9 ":=3‘ 1 %‘ 1$‘ "5‘ 4.%53"%5‘ 6" 2">4 ‘ %26%346"%5‘ 1$‘ 343% =%‘ ":=3‘ 1 1C64H%‘ =1745‘ E=4631 ‘ !5 C"6%‘ 17>361 %6‘ 1$‘ "5‘ 4.%53"%5‘ 1C5=1?‘ =%‘ 1 1C64H%‘ =" ">>‘ 1F46?‘ 4 ?‘ G11?F" ‘ E=4631 ‘ !5 C"6%5‘ "6‘ =46 %5‘ G%6646?‘ "6‘ !?F46?‘ %@71C6‘ "6‘ E" "47‘ 11>%6‘ "6 (E" "47‘ 7"3=‘ "6‘ E" "47‘ 1H%63 ‘ "6‘ 3=1 @‘ 64B% ‘ "6‘ "2=46?‘ &"5=%6‘ "6‘ 4B%‘ 47%5‘ "6‘ E" "47‘ 46<=47‘ ‘ "6‘ =174 ‘ 1>%‘ 1C 3‘ "6‘ =1745‘ "33%31 ("6‘ 1= ‘ 4 <$‘ "6‘ E" "47‘ E" "475‘ "6‘ "2=46?‘ 51E‘ "6‘ 1:%6‘ 4 : %@‘ "6‘ 47C% ‘ 4746?"531 ‘ "6‘ 1= ‘ E153% =1 7% ‘ "6‘ E43%6‘ 46:%5‘ ‘ "6‘ 1= ‘ 15<" ‘ "6‘ 47%5‘ C5=1C3‘ "6‘ 1= ‘ 1>%‘ "6‘ E43%6‘ C77%6‘ "6‘ =" ">>‘ 13% %6‘ "6‘ 1H%63‘ '4B%65‘ "6‘ =1745‘ 17>%551 ‘ "6‘ "2=145‘ 6"5>%‘ "6‘ 1= ‘ 7"3=‘ "6‘ "2=46?‘ "?? %31 ‘ "6‘ % 6@‘ 5==C653‘ "6‘ =1745‘ G615B% 16‘ "6‘ E" "47‘ %74 ‘ "6‘ =1745‘ 431 ‘ 461 %33$‘ "6‘ 1H%63‘ "2=‘ 9 ":=3‘ 4 ?‘ 461 %33‘ "6‘ "2=46?‘ %F?":43%‘ "6‘ =1745‘ <">F"3=‘ 461 %33$‘ "6‘ !?F46?‘ E46?‘ 9 ":=3‘ "5‘ 4.%53"%5‘ 3316 %@‘ G% %64 "‘ "6‘ =1745‘ 67616‘ 9 ":=3‘ "5‘ 4.%53"%5‘ 1"2"316‘ G% %64 "‘ "6‘ E" "47‘ E1:4 (9 ":=3‘ "6‘ G%16:%‘ C32=" 5‘ 9 ":=3‘ "5‘ 4.%53"%5‘ %6.%4 3$‘ 433‘ 4F%‘ "6‘ =1745‘ 46:%5‘ "6‘ =1745‘ @?%‘ "6‘ 1= ‘ ! F%5‘ "6‘ 47%5‘ C3%6‘ "6‘ =1745‘ 1F‘ "6‘ "2=46?‘ '%C 31 ‘ "6‘ 1 43=4 ‘ 4@71 ?‘ "6‘ &64 2"5‘ %7H%631 ‘ "6‘ % 6@ 1= 51 ‘ "6‘ 64 ?1‘ G%%‘ "6‘ =1745(9" 5%@‘ "6‘ 3=1 @‘ 9%2<‘ "6‘ 4`" ‘ &"6%H642%‘ "6‘ E" "47‘ %?:%5‘ "6‘ 433=%F‘ ?6%F%5‘ "6‘ %6%7"4=‘ 47H611<%‘ "6‘ =46 %5‘ 133%6% ‘ ("6‘ !?F46?‘ E4?1‘ "6‘ =1745‘ G64 3=47‘ "6‘ C6H%2<‘ %7>%‘ "6‘ 421 ‘ E" "47‘ =" ?‘ "6‘ " %5‘ 11<%‘ "6‘ 1= ‘ &64 < @ ‘ "6‘ 1H%63‘ %:46?‘ "6‘ G1??46?‘ %3=16>%‘ "6‘ !?F46?‘ H %@‘ "6‘ 16 F4 ‘ 64?5=4F‘ "6‘ "2=4% ‘ % %4:%‘ "6‘ E" "47‘ 5==C653‘ "6‘ E" "47‘ 6"32=46?‘ "6‘ =46 %5‘ 7$6%B" %‘ "6‘ =46 %5‘ %%‘ "6‘ 47%5‘ 7"3=‘ "6‘ 1= ‘ C2< 4 ‘ "6‘ E" "47‘ 4F" 51 ‘ %6."%4 3‘ 433‘ 4F%‘ "6‘ =1745‘ 4F" 51 ‘ "6‘ !?F46?‘ E462C>‘ "6‘ &64 2"5‘ =" ?‘ "6‘ 47%5‘ !3=%6"?:%‘ "6‘ &64 2"5‘ %%‘ "6‘ 463=117%F‘ =16%‘ "6‘ =1745‘ 11<%‘ "6‘ E" "47‘ E="3% 1%<‘ "6‘ =1745‘ 1F"5‘ "6‘ "2=4% ‘ E=4$31 ‘ "6‘ !?F46?‘ E11?‘ "6‘ 1H%63‘ '426%5‘ "6‘ =1745‘ "?? %31 ‘ "6‘ 15%>=‘ %6 %‘ "6‘ =1745‘ 4 %‘ "6‘ 1= ‘ 1CH1 ‘ "6‘ 1= ‘ 4651 5‘ "6‘ % .47" ‘ 43=C653‘ "6‘ 47%5‘ " @‘ "6‘ E" "47‘ 64 7%6‘ "6‘ 1H%63‘ 465=47‘ "6‘ =1745‘ 13‘ "6‘ &64 2"5‘ 4<%9 ":=35‘ "2=145‘ 4@ 31$‘ 47%5‘ C ?@% 15=C4‘ G4 "46?‘ E" "47‘ B%6@‘ 1= ‘ 7"3=‘ ?47‘ \ ?6%F%5] ‘ !?F46?‘ 466"5‘ =1745‘ C53% ‘ 1$‘ ' C6=475‘ 1= ‘ E4<%6‘ 1= ‘ E431 ‘ 4 ?‘ 1= ‘ C2<‘ 1$‘ 4?%@‘ =1745‘ 42<51 ‘ E" "47‘ C53% ‘ 47% ‘ =4?F"2<‘ 1= ‘ 42%@‘ E" "47‘ '64>%6‘ C:=‘ 7"3=51 ‘ 1H%63‘ &647>31 ‘ 1H%63‘ C 12 ‘ 47C% ‘ 1@531=‘ !5 C"6%5‘ E46F"2<‘ 4<%‘ =%%<%‘ G%6467‘ !?F46?‘ E4?1‘ ("2=46?‘ 4:%‘ =1745‘ &64 < @ ‘ 1= ‘ 4::$‘ 1= ‘ "21 ‘ 1$‘ % ?1 ‘ 42%‘ =1745‘ 4>"%6‘ !5 B "%5‘ E" "47‘ &% ‘ 4 %6‘ 6 1?‘ 1= ‘ 1F% ‘ "2=46?‘ 1F43%6‘ !?F46?‘ 16F11?‘ '4 "% ‘ "21 ‘ G% 3%7% ‘ E" "47‘ . 463@‘ !5 C"6% 3=1 @‘ 'C 217H%‘ G% 3%74 ‘ 4>=‘ 4F36%@‘ "2=46?‘ =16%?"32=‘ 1= ‘ E4<%6‘ 1$‘ " " :?1 ‘ 1H%63‘ %F?":43%‘ 1= ‘ % " :1‘ %%5%‘ &64 2"5‘ %66"><‘ % 6@‘ 4F %@‘ =6"531>=%6‘ "3=%61F‘ =1745

E %HH' 1$' 3=% "?? %('%7>"% " 0F46?' % " : ' !5 C"6%5' =46 %5' 4F36%@' 1= ' 34 @1 ' 1H%63' %4 4' % 6@' 4=% .C "16' ("2=46?' "": :' "2=46?' %6<" 5' 47C% ' (%@ 46?51 ' G% 3 %7% ' G"?%1 ' 46B%@' ' 1$316' Y,' ="42<' 1= ' =% ">>5' 1 %1$' "5' 4.%53"%5' C?"3165' "2=1 45' G6"2% !?F46?' 46<%6' 433=%F' 2 . 51 ' $ %6<$' 1$' 3=% \. 46 "47% 3$'.' (4C ' 1?6% ' ' %6<% 1$' 3=% 1C5% 1$' 171 5' 1= ' &1 3% %61@' ' 1$316' "2=1 45' 46H1 ' 1= ' ' 4B% >163' !5 C"6%5' 1= ' &C %6' !?F46?' &C %6' 1H%63' %??" ' 1= ' E11?$16?' G% 3 %7% ' &64 2"5' =42<%6' G% 3' 62=%6 1$' 5 4F163=' G 3' =46 %5 ' C 2?7H% %1 46?' 477 1 ' 1= ' 43%6' % 6@' %@ % ' =1745' E11?' %:" 4?' 466"133' 1 43=4 ' ?6%F%5' ' 4 "% ' 61$316' !?F46?' 61:%65' 45>%6 ! : "5=' =1745' =47H%65' !5 C"6%5' % 6@' 46<%6' 1H%63' =%$$%" ?' &113' 51F' =1745' % 5=4"@' ' 1$316' !?F46?' =47H%6 4" % &64 2"5' 6% ?' (=1745' %3=F4 ?' "2=46?' 4@ 16' "2=46?' E11?F46?' 3=1 @' 1C65%' 1H%63' 2$%6<51 ' % 6@' 47H%' &64 2"5' 466@' 1= ' 1B" :' E" "47' ?%63B11?' "713=@ % 1@' G%16:% 6%?F4@' ' 1$316' =1745' 1HH5' =1745' C2< %33' 1H%63' 46?"53@' 4>34" % ("2=145' G11?F" ' ' 4 "% ' :=% ?1 ' E" "47' 4H%6' E" "47' 1 %5' 1H%63' 4@ % %:" 4?' 6%33 4 ?' %6."%4 3' 433' 4F' \ 36%@ =47]' 453%65' E" "47' =%66" :31 ' 1H%63' C3 %6' 463" ' &1C <%5' 47C% ' C2< ' "2=46?' C3 %6' =1745' C 51' 1H%63' 116% 1= ' E" 51 ' !5 C" 5' =1745 ' 1 H@' G% 3(=1745' ' 1B% 4 ?' 61><%' 6"?:%5' !5 C"6%5' C?"3165' 1$' "5' 4.%53"%5' 7.$"6%53' 2217>3$ 1H%63' 46 %@K "2=46?' %4<% "2=46?' 1H" 51 ' % 6@' C6 %6' =46 %5 \ 1I31 e]' 1= ' %6H%63' 4 >=' C2< 4 ' 462"55C5' C336% ' %3%6' %(%B% %3%6' 9 ":=3' % 6@' 45546?' 47C% ' F@ ' =1745' F% ' 1= ' " ' "2=46?' " %6' G%16:%' ' "I1 ' % 6@ 0 1637 4=' E" "47' ! 7 7Y631 ' G%16:%' !?F46?$' 46%F' GC@?133' !?F46?' G1 ?5H161C:=' "2=46?' 6"2%' (' 1$316' 1= !?"5HC".(1:%6' %6%?"3=' 47C% ' 9%2<' "2=46?' 1 $16?' =1745' "33' % 7 ' 6"?:%5' "2=46? G463= ' 4`" $ %6 % "33 %31 ' 1F% ' C33%6HC2<' E" "47' =C65H@' 1= ' 11<% =1745' KE" $16?' E" "47' %7>%53' 1= C :%6$16?' 1= (C77%6' E" "47' &6%% 74 ' 1= ' 1C3=H@' C7>=6%@' !3=%6" :31 ' R %674 ' 6%31 ' "2=46?' 531 ' &64 2"5' 61E % E" "47' !3(=%6"2<' E" 46 ' GC 531 (!?F46?' "?% % 6@' >" 74 ' 461 ' " :6%@' 1= ' 1@?' "2=46?' >11 " :' "2=46?' '@133' 1= ' '4 " :' 47%5' "546?' '4 "% ' 4<%6' 463=1 17%F' &" " : .47' 1= ' E11?61$% (G=46"%5' F 33@' = .45' G11?F" ' 4 ?' =46 %5' 1 @3=1 ' %6.%4>3$' 433' 4F%' "2=46?' 4 %@ !?F46?' ,% ' 64B% ' %@31 ' 47C% ' 6137 4 ' =%1>=" C5' !@3> ' (%3%6' C: :' @71 ' 7@3=' !5 >"6%5' @71 ' 7"3=(%62=4 3' 15%>=' $ %@' (=1745(.$ %@' 1= ' 4F " 51 ' 1= ' " H1C$ % E" "47' 4 3" :$ 1= ' 453" :$ 1= ' %7>%' !5 C"6%5' 1= ' 1: :5' 1= ' !453' 1= 7"3=' 1H"45' !?% (G% 3 %7% ' =1745' 613=%631 ' E" "47' E="34<%6' 1H%63' %F' 5442' < I261$3' =1=445' =6"53"% 1H%63' >167%6' !5 """6%5' @71 ' 46>1C63' 1C 2% 16' 433' F% @71 4621 63' %6<% 1$' 3=%' 61F % $$"2% 47%5' % ' =1745' 4C6"2%' 1= ' 4C6"2%' 43=4 "% ' C?51 ' 15%>=(=%6F11?' 1:%6' E11?' !5 C"6%5' 4>34" % 47%5' 43>6"?:% 4>34" % 1= ' 43%6"?:% 5442' 1 %@F11?' =1745' '@15' 3=1 @ 3C63' @71 ' C5:64B%' 1= ' %6H%63' 1= ' 1H" 5' "713=@ =16 HC6@' 463@ ' @?%6' 453F"2<' 1= 51 ' !5 "6%5' "2=46?' $3<% @' '4 "% ' 1531 ' ">=145' <" %6' %62=4 3' 1= ' %66@' =1745' 4 ' =1745' 33""3=' E" "47'(E"3=%65' 1= ' 6155%' 47%5' 4"?%61E' &64 2"5' 34C 31 ' E" "47' '@ ' E" "47' ?%6=" ' %62C %5' 165%@' 1= ' 4@71 ?' "2=46?' 64??12<' "2=46?' =%5 @ 6 ' 15%>=' =163' 47C% ' 42<%6H@' =1(745' 4661F' !=1745' %?$16?' (4C6"2%' 4@' E" "47 ' .C 217H%;' %>.47" ' " 31 ' '4B"?' 1F 4 ?$' G6%:16@' 9" :' (1= ' 31 % "2=46?' 9 ":=3% @' =" ">>' C5546?' =1 45' C331 ' (H64=47' >11 %6' 1= ' G6%% % !5 C"6% ' (1= ' 7"3=' G%=3 %3 4 ' 1$' %4C$163' C" ?" :$ =1745' G" ' =1745' 61F % =13=45' &"32=' =46 %5' '1F %" :' E" "47' 1= 51 ' G%16:%' &16?' E" "47' 163=%@' E" "47' "6?' K&64 2"5' @55% ' H64=433'' 4" %@' 63=C6' 4" %@' 1>%$16' % ?4 ' G%16:%' 1=C ' E" "47' =17>5H ' 1= ' E%HH%6' 1H%63' 1 534H %K' !5 C"6%5' 4.16' 1= ' &%" ?(1H%63' 9" :531 ' "2=46?' 4< %@' 1= ' C ?% ' 1= ' 9% 3' !?F4$?' 51>>' 433=%F' 43%74 ' !5 C"6%5' 15%>=' "55%33' E" "47' E4<% @ ' % 6@' C55% ' G% 3 %7% ' "2=46?' 4@" % % 6@' '%3$""2<K' !5 C"6%5' ' 1$316' 1= ' 1C6 %' G4H6"% '' >46<%5' =1745' G6"7H % 4>34" % 15%>=' 3%B% 5' G% 3 %7% ' 4C ' '12<7% " C% 4>34" % 4351 ' E" "47' % 51 ' 1= ' E" 21I' =1745' &6%% 74 %3%6' %<%CI' =46 %5' 5H16 %' =1745' G 1B%6' =1745' 455% !5 C"6%5' 15%>=' 1 $%' "2=46?' E" ?@' "2=46?' FH6@' !?F46?' 7H615%' (E" "47' E" "5' G% 3 %7% ' 1H%63' 453" :$!?F46?' 61374 ' E" "47' ":=3$113%' =1745' %4 %' "2 .>45' 46@ 0 1 1 % ' 15%>=' K 16@%' !?71 ?' =" ">>5' @71 ' 4@ % 47%5' 1F' 1= ' "33 %' 15%>=' =%>%46?' %I4 ?%6' "3$%" ?' % 6@' "5H@' 1= ' @%' "2=46?' E466%' =1745' 42<716% E" "47' %51 ' !5 C"6%5' 4>34" % KE" "4 .' %43=' =1745' ! 31 ' 5% "16' =17 5' ! 31 ' .C "16' 4>34" % 1= ' 6117%F% ' 4.16' !?71 ?' 1H %' 453%6' 1= ' ! F"2<' 0 1=' G15$$":=3' 1H%63' 46?' "2=4% ' %462%' 1= ' 'CB4 ' !?71 ? "?:1?' 1= ' E4I=47' % .47" ' G6%% % 1H%63' C6?Y33' E" "47' 47$%" ?' =1 "45' 466"5' 3=1=@' GC@?133' 1= ' 4 1 ' 1= ' 4" %@' 1= ' %6@?4 % =1745' 43 %5' 3=1 @' E% 5' G% 3 %7% ' 1= ' 7"3=' %6<%' 1$' 3=% %42%' $16' E%537" 53%6' "71 ' &C %6' 46 46?(C6 %6' 43=4 '% ' %7%' 47C% ' 46F46' 1= ' %@ 1 ?$' "B%53%6K' =" 2133' 1 43=4 K' %3=%F4@' =1745' 11>%6' G% 3 %7% ' E" "47' 4 B%63' &% "I' &%453' 1:%6' =17>51 ' !?71 ?' &463=" :' !?F46?' %":=' 1= ' =17>51 ' &%33@>4 $% (3 133' 1= ' 47> @ % =46 %5' >F"5' !5 C"6%5' &64 2"5' 6%6%F11?' 1= ' 612<%33' 1= ' 11<%5' G% 3 %7% ' % .47" ' 64">%' 4$2=4 3' =1745' GC 531 ' 462=4 3' =13 45' 4::46?' 47%5' 9" :' !?F46?' 4@"5' "2=46?' "%62% 4 C%5' E"5%74 ' G" %5' <6<%' E" "47' 3$1C?' G% 6"%6" % ' 4>34" % !?7C ?' 4@' "2=4% ' %66@' 15%>=' " %@ K(G%16:% 463%6' 1H%63' =17>51 ' !5 C"B%5' 1= ' @<%5' 47C% ' =" ">>5' % .47" ' 1C ?' (47C% ' C62=' G%16:% C?51 ' E" "47' F163=' 1= ' 7"3=' 1$' 2< %@' 1= ' 11<% =6"531>=%6' &1F %6' 1= ' ' CH1@2%' =1745' % 2=' G%16:%' % ' 4"=C% ' 9%2<F"2<' 1 534 2%' %6 433@' G1?$6%@' E11?F46?' 1H%63' 64H1 6 % KE" "47' 4F36% ' G% 3 %7% ' 4>34" % 4`EF11?' 1H%63' 46<%6' G%16:%' "2=145' 1= ' K %6 %@0 !=1745' 11>%6' %1$$%6@%' % 6@' C6 %6(&64 2"5' !?F46?$' =1745' 1 %H@5% "16' ' 4 H@' =1745' !?F46?' G1C ?' G6%:16@' 4:%' 4631 ' 1 "?4@' "2=145' ' 1 " :' !5 C"6%5' 1H%63' C"HH' 1= ' %3%65' 6 1?' C"HH' G% 3 %7% ' ' 1$316' 4 "5HC6@' 4?%' =$3531>=% ' 643$16?' 1= ' 9 ":=3' 1= ' E" 51 ' G% 3 %7% ' 1= ' %324 $% % .47" ' ' %3="2<' !5 C"6%5' % ' %4?' %=%7"4=' @?% !?F46?' G1?$6%@' E" "47' !453' =1745' 466"133' "2=145' <" %6' 4>34" % 1= ' G16C7"

&16" 3=% "3@ 1$ E%537" 53%6 4" ? "H%63@%5 3=%6%1$/

=%" "::=3 1 1C64H % "?=46?9 i46 % 1$ 4 %4:=" 1$ 3=%=9" :?17% 1$ 6%4 ?4?1 % 1$ &."5 4.%53"%5 7153 1 1C64H % 1412"'64H % 6"B@ 1C 2"' =%" "::=3 1 1C64H % "?=46?' 47>?% '1F%' C%(1 %("5 4.%53"%5 7153 1 1C64H % 6"B@ 1C 2"' =%" "::=3 1 1C64H % "6 1C64H % "6 1F=3=%6 1$ 1E3=%6 461 %33 1 % 1$ "5 4.%53"%5 7153 1 1C64H % 1 2" =%" "::=3 1 1" 64H % "6 1=' i1F=3=%6 1$ 1E3=%6 461 %33 1 % 1$ "5 4.%53"%5 7153 1 1C64H % 6"B@ 1C 2"' =%" "::=3 1 1C64H % "6 1H%63 1F46?' 9 "::=3 1 % 1$ "5 4.%53"%5 " G53 1 1C64H % 6"B@ 1C 2"' =%" "::=3 1 1C64H % i?F46?' C55% ' !5 C"@% 1 %'1$ "5 4.%53"%5 7153 1 1C64H % 6"B@'(1C 2"' =% 1C 2"' =%" "::=3 1 1C64H % =46 %5 1C 34:C% !5 C"6% =4 2% 1C6 4 ?' ?%6 6%45C6%6'1$ 3=% !12=% C%6' 1 % 1$ 3=%' 16?5 :=3 1 1C64H % =46 %5 1C 34:C% !5 C"6% =4 2% 1C6 4 ?' ?%6 6%45C6%6'1$ 3=% !12=% C%6' 1 % 1$ 3=%' 16?5 17"55"1 %65 1$ 3=% 6%45C6@ 4 ? 1 % 1$ "5 4.%53"%5 "15! 1 1C64H % 6"B@ 1C 2"'' =%' "::=3 1 1C64H % "6 1= (6% 2=46?1 % 1$ "5 4.%53"%5 6"><2"><4 ' %26%34$@%5 1$ 343% 4 ? 1 % 1$ "5' 4.%53"%5 7153 1 1C64H % 6"3@' 1C 2"'' =% "::=3 1 1C64H % "6 % 6@ G112?6"2<(1 % 1$ "5 4.%53"%5 7153 1 1C64H % 6"BD@ 1C 2"'' =% "::=3 1 1C64H % "6 3%>=% 'i1I' 9"."::=3 1 % 1$ 3=% ?6?$ 17"55"1 %65 1$ "5 4.%53"%5 6%45C6@ =% "::=3 1 1C64H % "2 E" "47' 6C7H4 ' 4 %(1$ 3=% 17"55"1 %65 1$ "5 4.%53"%5 6%45C6@ 4 ?(3=% 1 1C64H % 1= 7"3=' !5 C"6% 4 13=% 1$(3=% 16? 17"55"1 %65 1$ "5 4.%53"%5 6%45C6@ E" "47' 16? i 4 ? 1 ;% 4 ? >>=46% 3 31' 3=% i46 % 1$ 46% ?1 ' % 6@ 16? @?% 1 % 4C? %"6% >>=46% 3 31' 3=% i46 % 1$ 12=%53%6@ =%' ":=3 1 1C64H % C:=' 1Y24F%' !5 C"6% 1 %' 1$ "5 4.%53"%5' 7153 1 1" 64H % 6"B@ 1C 2"'' =%' 1 1C64H % 64B% ' 1F46?' =" >>' 1F46?' =1745 1F46? %6%:6" % %63"% =46 %5 %63"% %6 46?G64 B" ' 1=' G64 B" ' =1745 %F>163 % 6@ i6%?%6"2< =@ ' 4 ? E" "47' =%@ %@ !5 C"6%5 "6 1=' (1F3=%6 1$ E="3%=4B% ' "6 47C% ' G6"7531 ' "6 =46 %5(463%6%3 "6 1:%6 34 : %@ "6 =1745 "33 %31' "6 1H%63 1331 ' "6 1=' 1331 ' "6 1H%63 @%'; "6 =6"531>=%6 C5>4@% "6 E" "47' 1 %@F112? "6 E4 3%6 46:%5 "6 % 6@ 46F112? "6 E" "47 6>%'("6; =1745 G615B% 16 "6 =1745 1>% 1C 3 4616"%33%("6 E" "47' E1:4 ' , % 1$ "5' 4.%53"%5 %.%4 3$ 433 4F("6 i?F46? E46?' "5 4.%53"%5 33316 %@ G% %64 " "6 =1745 6%B16 "5 4.%53"%5 1 "2"316 G% %64 " "6 "2=46? % 7 > % 9 ":=3 1$ 3=% 43=' "6 "2=46? 51F 461 %33 "6 %@ 1 3 461 %33 "6 =1745 46:%5 "6 15%>=' %@ 71C6 "6 =1745 17>%55> ' "6 1= ' i F%5 "6 ="'>>' %4?1F%5 "6 1= ' "2=1 45 "6 15%>=' E" "47 51 ' "6 =46 %5 G133%6% ' .C '>3 "6 =6"531>=%6 E6% ' "6' 47%5 4@%5 "6 C7>=6%@ E" 2=' "6 (1= ' C2< 4 ' "6 =1745 =47H%65 "6 1=745 4" 3 G%16:% "6 "2=4% ' 1 % "6 E" "47' 1F>%6 "6 =1745 64B% ' "6 1H%63 "2=' "6 &64 2"5 =" ? $16'K3=% 4 42%5 1$ E="3%=4 ' 4" 3 47%5;5 17%65%33 =1C5% 4 ? 9% 5" :31 ' 4 ? 3'%M =6%% 6133=1 1316"%5 1$ 3=% HC63 1$ 171 ' %45 $16'3=% 3'7% H%" :' =46 %5 &11' %6"6@ GC@' (G%16:%0 "2=1 45 6112<% 6"?:%5 E" "47' ?F163=' 1H=' =% ">5 C:=' C"6% 47%5 1F3=%6 i?71 ? =%' ">5 =17 45' E4 <%6' G112?F" ' E=4631 ' 4630 '

((' 47%5 (' ' ' 0

16:4 ' "2=46?' C331 ' 1F 4 ?' G6%% F11?' 4 C%5' E"5%74 ' =1745' =16131 ' % 6@' 1H" 5' G%16:%' %::13 '
!5 C"6%5' 1= ' 4 261$3' 12<' 1$' 1 : 26%' 47%5' C33%65H@(=1745' 4 5% ' =1745' "?%6' E" "47
42<% %6' 15%5' 163%6' =" %45' ?6%F%5' "2=46?' 1>=47' 47%5 &61 3" % =1745' C2<%@' 1H%63' C3 %6' G" H%63'
%66" :' "2=145' "2<%6" :' "2=145' 1 " 5("2=145' &6%%74 ' 16?%33' 6%=%61?%' 47%5 C " :=47' =1745'
466"51 ' 6"5>%' G64 :%' 1= ' ' %' =%6%' =1745' 61F %' 43=4 "% ' " 31 ' 15%>=' "52,% 1= ' 64?$16?' E" "47'
E="34<%6' !5 5 3=1 @' E"3=%65' =6"531>=%6' '%4 %' % 6@' 1 %5' !?71 ?' G1?F" ' !?71 ?' &C %6' %I4 ?%6'
4 ' % .47" ' 4@%5' =1745' C331 ' =46%5' %3%65' "2=46?' 4661F' 1= ' "5546?' 1= ' 7"3=' 1$' %4C$163' C" ?" :$'
1= ' 6%?% =47' "2=46?' 1 %" :' 1= ' % =4 1' =%%<%' G%6646?' C:=' =C?%":=' 1H%63' 46?' =1745' '@15%'
1= ' C :%6$16?' =" ">>' C5346?' "2=46?' E466R 1H%63' 64F$16?' !5 C"6%5' "6' G%16:%' 11<%' 3=1 @' 6C77":%'
47C% ' 6@16 H64=47' <" %6' 1= ' %(@ 1?$' "2=4% ' %66@' %@ 1?' 466"133' 47%5' G"HH1 ' % 6@(16 F4 '
E" "47' 11<%6' 1= '&"3` ' %3%6' 4 ' 5442' %66%33' E" "47' E46?1C6;!5 C"6%5' 1H%63' 6%%?1 ' 15%>=(' =%6F11?'
E" "47' =C62=" ' 1= ' 6"2% !?F46?' 1= 5' =46%5' 4 %33' =1745' 1631 ' =1745' 11?@(G% 3%7%' G%674 '
6%31 ' !5 C"6% 2 ' . @ 5F163=' G% 3%74 ' "2=46?' 16 %@' C:=' ' =C?%@' "2=46?' %F74 ' !5 C"6%5' 453%6'
&64 2"5 '4 ?6"?:% &64 2"5 466@' !5 C"6%5' 45>%6 ! :"5=' 1= ' 4@@' G% 3%7%:' 8 >34" % 1= ' =4%5' 1= ' 45<4 '
E" "47' 1C 51 '\!5 C"6%5]' % 6@' 466"5 %62=4 3' E" "47' &"5=' 1= ' 42@' =1745' %62@' 47%5 '%F%@(E" "47 '
3%F<%@' E" "47' !453' =1745' 466"133(1= ' ":?% ' !?F" ' G6"$$" ' !5 C"6%5#' ' '

(R ' (&16' 3=% 12"%3@' 1$'(G64@5' ' 4 ?' 3=% 5' 1$' =4 2%.@ 3=%6%31' H% 1 :" :f ' (
"6' E" "47' E" 3475' 9 ":=3' 4 ?' 461 %33 G%16:%' G"$$16?' 1= ' 6%F%6' '4 "% ' %?" :$%" ?' "2=46?' K 4C:=4 '
1:%6' &% F"2<' =6"531>=%6(' C5:64B%' 462"55 ' C33%6%' E" "47' 46<%' 4 ?' 3=%' 6%53' 1$' 3=% % 2=%65' $>6' 3=%
3"7% H%" :' >=' 453" :$!5 C"6%f' (((' ' D

&16' " 21 5' 364 ?' 3=% " 5' 1$' =4 2%6@' 3=%6%31' H% 1 :" :f ((
"6' E" "47' 16<' 9 ":=3' "6' 47%5 ?3 %6' 9 ":=3' "6' =1745' 1F"5 9 ":=3' C<%' 536(@' =1745' 1 %5 !?F46?'
@?%' 1= ' 4F %5' "6" "47' '1H="=5' 47%5 E "61 :' G64 4?1' ":::133' =%1?16%' "$ "C653' 1H%63' 6"2%' =1745'
E" ?=47' 1=?' C :%6$16?' % 6@ & %7" :' : 6' >7>%5523' 4 ?' ?=' " ' !5 C"6%5' 4 ?' 4 ' 3=% % 2=%65' 1$'
3=%' 54"?' 12"%3@'#' ' (' ' D
&16' 3=%' 1C 3@' 1$' 1 71C3=f ' '

;' G=4$%5' 16?' 46 C%55%1$' E162%53%6' 1 % 4 ? "%"6%' >>46% 3' 31' 3=% ' C<%' 1$' %4C$163' !?F46?' %6<" 5' ":=K
=%6"$$" "6' =46%5' 9%7%@5' 4613"%33' "6' 1= ' E" "475' 461 %33' "6' 1F 4 ?' GE@ ' 9 ":=3' "6' C7>=6%@'
42<F?63=' 9 ":=3' =1 "45' 16:4 ' % 6@' 61H%63' 1=>' 6 1?' 1= ' 1F' =46%5' 4 ' =1745' 16:4 ' 1$'
4 6C7 %@' % "5' 16:4 ' 1$' 42=% ' G%16:%' 9%7% '(1$' 4 B4@%6' =46%5' 6"2%' 1$' 4 $1"5$' !?71 ?' 16:4 '
1$' %6"?1 ' "2=46?' "53%6' %>6@' 16:4 ' 1$' %?F% @' 1:%6' 3%5' !?F46?' 1 %5' 1$' C2<4 ?' =1745' 1 %5' 1$'
5<' G%16:1' %F"5' 1$' % =1F ' =46%5' C:=%5' 1= ' 1@6%' =46%5' 16:4 ' $ $%?% $46' 1= ' 16:4 ' 1$' 42=% '
"2=145' 6 1?' 47%5' 16:4 ' 1$' 4 ?.1' 1= ' E43%6' 1$' " 65$%"?' 4>% ' 47HC6@' G%16:%' 9%7%@5' 1$' 9%7%@5'
% 6@' 17<" 5' 1= ' 47HC6@' =6"531>=%6' 6"2%' 1>31 ' E" "475' 1?%6"?<GF@ ' 1= ' %$$%6@%5' '4B"?' 16:4 '
E" "47 G16%' $ 4 :531F33%' 2.= ' 2C?4716%' 1$' 9% 3' =C62=' !?BB46?(9%7%@5' "2=46?' 1H%63$' !5 C"6%5' =%'
4@16' 1$' "1 71C3=' $16' 3=%' 3"7% H%" :' =%' 4@16' 1$' %F>163' $16' 3=%' 3"7% H%" :' =%' 1636%%B%' 1$' 5<%' $16'
3=%' 3"7% H%" :' =%' 4" "$%' 1$'((H%6:4B%' @' $16' 3=%' 3"7%'H?" :' "2=145' 46<%6' G%16:%' 9%7%@5' 1$' 9%B%' 74H @'
E" "47' %3=" '1$' " =47' !5 3""6%5' E43%6' 4<%6' 1= ' 16:4 ' 1$' 4 3=%F@' =1745' E" "475' 16:4 ' =47H%65'
1= ' %F"5' 1$' $31 =" ' =46%5' E" "475' 1$' %F>163' %=%7"4=' E" "475' 1$' %F>163' 1= ' 16:4 ' 1$' %F>163'
=46%5' 16:4 ' 1$' 4 516%' 433="45' "6?' E43%6' ?@' 1H%63(1 %5' 1= ' (16:4 ' 1$' E" "531' 1= ' 16:4 '
1$; %6 4 ?%:C%' E" "47' %3=" ' 1$' 4 7% . ' 1= ' 64:.' 1$' 5<' =%1>=" C5' @ 4?5' 1:%6' E" "475' 1= '
466"5' 1$' H%6:4B%' @(1:%6' " "475' 1$' E4" 4' 4664' E" "47' 1F%' 1$' 113=4 ' 16:4 ' =1745' 6%B16'
@" "2<' "3 "47' 16:4 ' 1$' 6%?C 1:C%' E" "47' 6"2%' (1= ' GF" "7' \ =1745' GF"."7]' &64 2"5' 6"32=46?'
1= ' 6"32=46?' 1$' 47>51 ' =%?1 ' 1F%' ! `64' E43%65' C:=' 466"5' E" "47' 4@5' 1$' %F>163' =46%5' 1 %5' 1$'
4:16' % 6@' 2213?' E" =4"$$' 6"32=4?' 1$' \ 4 :4??12<]' E" "47' G%16:%' 47%5' >6" :%$3' "2=4% ' 1=C %' =46%5'
G6"$$"3=' =1745' 6"32=46?' 1= ' 2C?47 16%' 1$' 6%?4:=4 ' E43%6' &163C %' 1:%6' 9%7%@5' 1$' 4 3%:%' 1= ' E43%65'
(1$' 4" 3' 6"?%5' '4B"?' =1745' 1$' H%6:4B%' @' 1= ' %F"5' 1$' 4 ?" 1' "2=46?' 2C?4 .16%' 1= ' G4HH' 47%5'
16:4 ' 1$' H%6:4B%' @' % 6@' C75%.' =6"531>=%6' 6"2%' .C "16' G% 3%7%' =46%5' C32=" 5' %6<%' !?F46?'
"2=145' G%16:%' 9%32=74@' =1745' !?F46?$' G%16:%' 16:4 ' %6%:6" % %F"5' ?47' ?475' E" "47' % 47@'
&64 2"5' %F"5' G% 3%7% '#' (' ' ((
&16' 3=% 1C 3@' 1$' 16$1<f '

=%' ":=3' 1 1C64H%' % 6@' 16?' 164"6"%' 1$' 3=% 9" :?17%' 1$' 6%4 ?' "6' 1H%63' 421 ' "6' % 6@' 1H463'
"6' 1= ' E1?%=1C5%' "6' "2=46?' %6 %@' "6' 1= ' 16?4 3' "6' 1H%63' '6C6@' "6' 1= ' 1 4 ?' "6' C:C53" %'
>:64B%' "6' := ' %33C5' "6' 1H%63' 9%7>%' "6' 1:%6' 133$' "6' 421H' 53%@' "6' =46%5' ?475' "6' !?F46?'
E46?' "6' "2=145' G46646?' "6' E" "47' 11<%' "6' !?71 ?' '>@%@' "6' %3%6' G%4 %' "6' !?71 ?' 421 ' "3'
1= ';' 453%$1 ' 461 %33$' "6' %B"" ' 43@ ' "6' &64 2"5' GC@H1 ' "6' E" "47' 4 3' "6' (1= ' C6 %6' "6' "6"" '
E@2=' "6' !?F46?' ="5%>=4 ' "6' 1H%63' 4@31 ' "6' =1745' 4F" 51 ' 9 ":=3$' 1H%63' E4>11 % 1= ' 46H1C$?'
!?71 ?' E1?%=1C5%' 1= ' E1?%=1C5%' 5=' E" ?=47' ="">>' 53%@' (1= ' 1 4 ?' 1H%63' 9%7>%' 47%5' 153(
1= ' %6 %' =46%5' %' G6155%' 1= ' 9 @B%33' '% `" ' 51F' 1H%63' C2<" :' ="">>' %?" :$%" ?' !6457C5' !46%'
1= ' 46B%@' 1H%63' 1 %@' 1= ' 166"5' '4 "% ' %?" :$%" ?' G%H6:%' ! :4 ?' 5442' 6%531 ' 1H%63' '4B@' 1= '
" :4@' 63=C6' 64 3=F43%' 142="7' 433=%F5' 1H%63' 6"33"$$ 4 >=' 46%' 1H%63' G112=' 4C6"2%9% ?4 ' %1 46?'
4>%5(1= ' %>>5' 1= ' 1C:=31 ' 3=1 @' &6%%@1 ' "B%6' %B%' =16 4:=' (GC6?1 ' =6"531>=%6' %?" :$%" ?

FD4 QG' + $' ' '4;

43 C% '&C %6' =1745 1F$%" ?'; 1=' =C6531 ' 1:%6' 453% 4 " :H1C6 % G4C?@; i?F46? %":=' 1=' "6<% '
; C:C53' % 6":.$ 'G 1 %6' '% @(E" "47' 64 3=F4"3% '1$31G' >%>%6' 47%5' 153(% "16 G4H6"%„" 67":%6'
=6"531>=%6 (61F' "2=%5' 31F % % 6@ %:""5 1=' (E46<=1C5% 1H%63 E"51 'i?F46?E"51 'i?71? 6"33"$$%
(4331 ' %6 %65 1H%63 (' 4@ 1=' @?% %7%3 %6 % E" "47' ?$%" ' 1=' %67@ =17 45' 1F %5=% ?
C ?%$16?>% $3"4 '=1"$345 61F % 1=' 4:% 47%5 K E46? &64 2"5 1 :' =1 "45 "%651 ' 43=4 "% ' @71 ?$
463" ' 4 3=16>% i?71? >47% 1=' 4@ i?71? 47H% =17 45 E6":=3 1H%63 4624 D# % 6@ .2HC6:=‘
>.%62@ &6%4<% &64 2"5 G462" %6 6":(&1C 34" % .47" '';i :4? =1745 46 %@ 7"3=‘ &%$%F11?1=' 1B% '
1=' %" % G452 1":% E%?' &64 2"5 =16"5H@ G462" %6 %F"3 564%"Q 1=‘; G%16:% %651 ' =1745 4 ?%65 =1745
4 3 "2=46?&%$6"%6 E" "47' "?%@ ":"571? 64$$16?% 7%3 %>>5 1=' 466"133 G6%:16@ ' 48"5 =46 %5
=4F' i5 C"6%5 1H%63 %67@.]' 1 43=4 ' @71?$ 1=' &1F% =46 %5 C6 %6.C "16 1H%63 %6 % i? '"46? .%536A :%
%7%3 G112=‘ &64 2"5 %:C5 "2=46? 463%6 1=' 6%F53%6 (1H%63 ' 1C:=3@(=1745 4 H133 1H%63 3"%74 '
&64 2"5 'C5:43% 1:%6 % " :$ 1=' 453 % i?F46? C F%6 =174 '4@5>11 % =1745 6"2< i?71? :C"5=‘
C7>=6%@ 4 3 1=' %7%3 455%33(. E4 %]]' 421 ' "2=1 45 % F"5% %%6% G46 "5% 1643"1' E4 >1 % 1=' E46?
47%5 % 4 3 i?F46? i46 % 1H%6 8 &"5=‘ &64 2"5 %B% =46 %5 46 F% '!E" "47' 34$$16? %1 46? 4>%5 1H%63
% ' =>745 61F % 1H%63 16 %6 E" "47' C 3 %3%6 E" 51 'i?F46? 17H% =1745 61> %@ 1:%6 61F'
i?71? =%7"3=16>% E" "47' C F%6'1$'G%53F"2< 1:%6' % %" :$ =1745 CI31 ' 4>6%5 %33$ 1H%63 '1C:=3@
E" "47' C631 ' % 6@ % ' E" "47' 1 @ =46 %5 C6 %6' 5% "16 =133"45 <%1B%6' i?33624"? 1 $% % 6@ 1C6%5
=C6:11? >F11? 1=' 466"5 G%16:>' '4 "% ' E" "47' C?% 5 4F6% 2% %B% G% 3 %7% ' % 6@ >% 74 '
i5 C"6% 47%5 1?=47' E" "47' 1 %@ G% 3 %7% 'H ' ‘

&16' 3=% "3@ 4 ? 1C 3@ 1$'3=% "3@ 1$ 16F"2=f (

1= ®E4?6? i5 C"6% 4@16' 1H%63 '4B@' i5 C"6% %2167%6' "6' > 6@ 1H46? 461 %33 63=C6' 64 3=F4"3%
i5 C"6% 3%F46? = 745' 1$%" ?(C"6% =% F1' =%"$$5 $16' 3=% 3"7% H%" :' =1745 E"55% 1H%63' &6%%74 '
1 '(1F' "2=1 45' % F@5 &646" "5 G462" %6' E" "47' 43%(="">5' 3C HH" :' 1= '£% 2=' =1745 11<% %6%7@
"7' "2=4% ' %B%6 %@' 1H%63' 11<% 4 ? G%16:% 1C3=' i5 C"6%5 C:C53" % 6":.$ "2=1 45 6"2<%6?"<% E" "47'
GC@H1 ' 47C% ' E46=1C5%' =1745' 153 % 4F6% 2% G1 ?F@ ' =1745' C6 %6' 1= '&%%74 ' i?F46?' 46<%
=1745' 3<" 51 (?%67% ' ' 31 &4"%$%!' '%4 % 1$ 16F"2=' '1$31 6"?%4C1' '1$31 6' %>>%6" =1745' 1F %5?"?
i5 C"6% =1745' 421 ' 1=' " :4@ i5 C"6%5 1=' 46 =47' 1=' '%65 %@' 1=' 42<%6%" 1:%6' 4"3%6 G% 3 %7% '
%3%6' =42<%6" "2=46?' 463%6' G% 3 %7%

&16(3=% 16>C:=‘1 ' 6%43%' 467 1C3=‘/ D

!5 C"6%5 421H ' 4 2%6 G% 3 "2=46?7 4" 5$16?7 !5 .3"6% % 6@7 C5=31 ' G%6646?7 G16% (1H%63 6%331 ' 1H%63
45 %6": :' 1= 136@7 !5 C"6%5 % 6@7 421 ' G% 3 ' 4 % ' ' 4 B%65 ' 1U16 \]S$ 9 ' =@5"2< " ' 1= ' "2<%6" :' 461 %33
"6 433=%F5 ' C? %@ ' 461 %33 G" H%63 "2<%6"=:' !5 C"6% 3=1 @7 4 7%6; !5 C"6% "6 !?F46?7 "2=1 $7 461 %33
' D =% 1 1C64H %5 "? %@7 ;E 163 %@7 4 "45 1C 34:""% !5 C"6% =%5 ' ":=3 1 1C64H % E" "47' 16?7 &"3` E" "475 1$
3=% 9" :?17% 1$ 6% 4 D7 =%5 1 1C64H % =46 %5 %63"% !5 C"6% 14=5 %4 % e 6@7 %4 %; 1= ' 1@ %@;E" "4645
46<% 1= ' %7H%631 ' 1= ' ' "2<% 51 ' 1= ' ?6%F5 !5 C"6%5 1= ' 466"%6 =17 45 ' %421 ' 1H%63 %F217H5
1:%6 %7H%6316$ 13 4$5 1F6.6 =46 %5 46<%6 1= ' 5=5 !?F46?7 4C ?%65 G% 3%7% ' 1= ' % ?1 ' =1745
1%3=C653 !5 C"6%5 ! 7%5 3%F46?7 433=%F5 6 "H%46 E" "47' C3H%63 G% 3%7% (1= ' K 6%%?% &64 2"5 4 %
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G% 3%7% ' &64 2"5 4" 3 1= ' 1= ' E1?=4 ' !5 C"6%5 7H615% 1 H%%2=5 G% 3%74 ' "2=46?7 12<F11?7 !5 C"6%
=%5 4@16 1$ 6?2< @7 $16 3=% 3"7% H%" :' 1H%63 &6%F" ' G% 3 15%>=5 @ %5(&64 2"5 16:4 ' G%16:% 9% ?6"2<7
!?F46?7 3643$16?7 E" "4>" =C65H@5 46B@ !<" 5 =6"531>=%6 1C 34:C% % 6@7 &46=4%6 % 6@7 !?71 ?$ E" "47' '
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' =16 31 ' 1$ 612<=43 1= ' 4 :=47' !5 ' "2=46?7 9" 574 ' 1= ' 9 ":=3 =17 45 %7H%631 ' 1H%63 ?6%F5
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6 75361 :' 3=1 @7 =46>5 1= ' 466 E" "47' "%651 ' 1= ' 143%5F163=5 1$ 3=% %67"34:% 1:%6 "5 ' 1$ E4 "2<
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ĻHH' 1= ' 42<F% ' 1H%63 '1F3" :' 1= ' 64?F4@' E" "47' >"% 47%5 1.:% % 6@ 1 "H5' 467 4?2?C<%
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13F133=@ <%$i :31 ' i5 C%6%5 "6 =1745 %5=4 ' "6 1= ' %B%51 ' G1F%6 "6 E4 3%6 E613%5 @ "6 E4 3%6
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431 %33$ "6 =46 5 "3 %31 ' 9 ":=3 4 ? 461 %33 "6 6"4 ' 61C:=31 ' 9 ":=3 4 ? 461 %33 "6 i?F46? C :%$3167
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=% 4@16 '$16 3=%K3"7% H%" : 1= E" ?=47 !5 C"6% %216?%6 1= >%%?% '1_316 1V =@5"2<' E" "47 C<%@ !5 C"6% =1745 16 %"C5 47%5 6W55% ; ?47 ?% 4.?1 % "2=46? E="3% 16 %"C5 42=46> 1= 7"3= =6"531>=%6 7"3=' E" "47 " % ! $%5 %' G6C2=" 1H%63 C "$162. =1745 642%H6"?:%(1= %":= 47%5 % "5= %I4 ?%6 216 % 2= =16 HC6@ G1?57"3=(%3%6 C< 1:%6 C3$%6HCH<(1= E" 3%6 %1 46? 61 %3%6 C<%@ G% 3%7% f 3 ;' (

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1 4 ? =1745 &% 31 17>31 '(&% 31 =1745 G%7=47(K =1745'9 @@%(33 @> % 4@3%65 % 6@(%B% " :=47 !" "4 " 6"?:74 % 6@ ?6$2%$ E" (46<%6 &64 2"5 46 2%6 E" "47 1= 51 =1745 @66% =46%5 15 =46%5 9 ">% 1= C 3 !?71 ?(E4(6 %= 1= H" 51 1= '(=C6531 "2=(1631 1H%63 4??1I % 6@ E46 %6 =13445 ?=47 !?F46? CHH46? % 6@ 1%@ 1=(64@7% =1745 43%6 =" ">> %??" :$%" ? 1H%63 9" : "2=46? C2<" :=47 476 1 ? ? ;!5364 :% 1= 26"B% %6 =46%5B "3= !?F46? 163=K E" "47 @B433 47%5 C3=16>% 1= '. 16 E4 "5 &64 2"5 7"3= 1$ =64 ?"531('.$=1745 7"3= 1$ 4631 E" "47 61$3$ 8 1= E6":=3 !?71 ? % 2% ,(1H%63 46<%6 1H%63 4C 31 1= f C664 2% =1745 E6":=3 % 6@ !?:46 47C% E46? 63=C6 46 46?"531 4F6% 2% 1F .C "16(=1" 45 G1?" : 1= (% 2% G%16:% & %%3%F11? 1H%63 E466@ H6@ 16343(1= %6B%@ =6"531>=%6 4 3=16>% 1= %67@ 1$ C331 3=1 @ E643= 5% "16 3=1 @ E643= .C "16 % 1331 !?3446? >% !?71 ? =%>=46? 1= 7"3= 1$ 46<%$%" ? E" "47 C C7 =1745; "B%33 =46%5 9":6%EK =46%5 ": 1 R 1= %4C71 3 =17>5 7"3= 1$ 4C:=31 "2=145 64: =46%5 E="3426% 1= 11<% '1? 6b =1745 46B%6 E" "47 %33$ 4>34" % &" E" "47K 1%@ 1H%63 C??1 '(1= 43%5H$.>=; 61E"6% 45%5E11? 4"45 64 7%6 >(1:%6 9%66" :31 =1745 %4% =1745K @% =1745 ! 5% "2=145 &6%%74 1= %" $!?F46? 531 Z 1= !%31 >%3%6 ?%674 1= >" < % 43?1 "33$%" ? 1= G%6 " : G6%:16@ 46<% E" "47 4 ?4 =1745 '4?% =1745 E6":=3 (5% "16 =1745 4746?"53 4$3"C% 46 46?"531 "2=46? E46%" J =>745 64 ? 1= 46<%6 1$ E"2<=434 !?F46? % @ =1745 6":=3 E. "4 C "$4771 ? 47C% # 46<% KE" "47 H?.5 ?6%F5 E46 %6 1= " 4"=C%" ?42<%6H@("2=46? 163%6 1= 64 ? 1= ! ?6%?(1$ 4I47 1= E" ?5% "16 =" ">>(&6% 2= E" "47 4771 ?1$ E="3 31 1= 455(47C% 4<%6 =1745 F% "1745 ?6"?:% 'E" ""7" C245 47C% 42@(=1745 $"% ?"5= 463=1 17%F 143>% E" =47 6":=3 1H%63 C55% !?F(46? G4% =1745 !1<%5 1= "2=1 $ % "16 &64 2"5 4@12<% % 6@E46?' % 6@ 63= 4F6% 2%(3"53%? "2=46? 33 ">>5 1H%63 46<% E" "47 @%' "2=46? 466"13 E" "47 &1F %5'; 15%>= E%?'K 43=4 "% '341 ?$ "2=46?' K &6@%6 1= '$ F11? =46%5;K 1F334" : !5 C"6%5 =1745 47%6 455" :H1C6 % G4F?@ 8; E" "47(%B% E"3""47(G45212< =1745 46 46?"531:' 1$ 9%331 1H%63 9%7>% =1745 C C7 1H%63 611<% 1= (GC6?1W" &64 2"5 7"3= (1$(3$$% %?' E" "47 64 ? 421H 64 ? G" H%63 '>H% !5 C"6%5 =13 4"5 5=H@ E " "47 C55% E =46"" 1% 1= C55% 1H%63 '46<" 1= (4 =4 B 15%>= 61F % "2=46?' %5%@ 134" 6@%6 '1$ &" :=47 G% 3%7% 3=1=. &"5=%6 $.1=]' 645<% .C 6 $"H%63 = @ 1H%63 % " :$ E?"434 %4 . 1 3 1= 64 ?" : !5 C"6%5 !?71 ? k\ 66"5B "2=46? &$%%53> % 3=2 17%F 1C : =1745 46%33 ?6%F 61F %57"3= =1745 &13=%6:" 1= 2=H42< 1= I327 =1" 45 <2=% "2=145 !?:46 G%16:% E?335K "2=46? % <" 51 !?71 ? C7%(=1" 45 6":=3 .C>"16 '%B%6% < !?:46 1= >%."2%6 !?71 ? % @ 1= 4HH%33 1$ 647$%" ? 47C% # G61B% =1745 > 6 % .C "16 G% 3 %"6$% " "2= 6?6 &%66"%6 =1745 4@F46? 1$ 46% "71 ! 1B% 1$ 3C" %":= E" "47 & 42< 1=6% &1F 5 G%16:% G11?4@ !(5 C<%5 E" "47 C6=%6 %$$%6@ 43"F46? 47%5 46B%@(1$ 12<$%" ? "2146? C>> %33 2$2%63 4@ !?F46?(G23%3% 1= G 1?F "1$ 463%5=47 G%16:% >4 % G% 3%7% G%16:% '45=F11?

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46<% 1C:=31 ' G1?$6%@ E?1?F?6? ("2=46? 3%%6% C7>=6%@ H% ' i?354 6? % "51 ' 1H%63 11<%5 1 '

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'CH1"5 E " "47' 4>" ' i?71 ? C $ E " "47' C'$ H1 ? 433=%F' 61B%6 1= ' 1 4 ? %1 46? (=" ? "2=4$?

C32=" 51 ((E " "47 ' %6<" 5 i5 C"6%5 i?F46? CHH4 ? =1 7 45 11<% (1$ #(4B"1C65 E " "47 ' C33%6' i?71 ?

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421H 46B% @(=1 7 45 4@ @ ' =1 7 45 %=' &64 2"5 E " <" 51 ' E " "47'G"HH5 47(C% ' 4 ' =46 %5 11' % .47" ' 4664 3 1= ' K =%>=%6? 1= ' G%664 6? 1= ' ="3@ &%6?" 4 ?1' 1 4 ? 1= ' 1 %7 4 ' 1= ' 4<% 61F' %66% '

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1= ' 1%' 47%5 544251 ' =1 7 45 &11 =1 7 45 G1??% ' E " "47' 3%%6% i?F46? 346$16? 1= ' 421H ' 4 "% ' ":. '

46<% 1C:=31 ' G1?$6%@ E?1?F?6? ("2=46? 3%%6% C7>=6%@ H% ' i?354 6? % "51 ' 1H%63 11<%5 1 '

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C32=" 51 ((E " "47 ' %6<" 5 i5 C"6%5 i?F46? CHH4 ? =1 7 45 11<% (1$ #(4B"1C65 E " "47 ' C33%6' i?71 ?

"?:1 ? 1= ' 45=' 1= ' C32=%6 1H%63 11<% ' 1 16 4F@%6 G % 3 % 7 % ' ';4'

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63=C6 (16? "521C 3 6F" ' 1$ 3=% 9" :?131% 1$ 213 4 ? 1= ' 16? C33$(1$ 3=%(; 9" :?17% 1$ 6% 4 ? "6 1= ' % =47' "6 E " "47' (=1 745 $ ' 1= ' .4:.:' "6 @ 5=HC6 =47' "6 E " "47' E " 5 ' "6 =1 745 ' @<% "6 E " "47' C >%>%6 .6 "2=46? (51F ' "6 =1 745 4@ 16 "6 1= ' 34=% %@ "6 =">' % ' "6 G%16:% 46<%6 4616"%33$ "6 E " "47 (16 %@ ":=3 1$ 3=% 43=' "6 1= ' 6"521% "6 "2=1 45 % =47' "6 i?F46? % F@ ' ,<6 4 "%5 ?6 1 ' "6 i?F46? C : 6$16?("6 47%5 7"3=' "6 =1 745 " %6 "6 G%16:% =C3% 9 ":=3$ =1 745 % =47' 1= C<$%=%6 ' "5% ' "B%65 % 6@ %=4.=' "23#6? 6"?:%6 =1 745 %F?":43% =1 745 6":.:$ ' 1?31\1$O' 4F' G? 6:$% %"(E " "47 >46? 47%5 C33%6 G%16:% G16" :' =1 745 %46? 1="' =% 2% 47%5 G64B%5 1= ' &C %6 C?:% ' 6H4 ' 4 ' =1 745 1624 ' 1$ G43.F%< %1 46? 47 71 ? G%16:% %66@ 4>34" % "2=46? 1 5%@ 1= ' 4<%6 %!4 ?%6 34>% %@ 1= ' " %6 "71 ' 7"3=' 1= (4654% @ =%43% @ "2=4% (i?FA6?5 i5 C"6%5 =% 4@16

$C 2;<CD E K E + $ & ! =D2

.C "16 =46 %5 &4 : : 1H%63 67% % 6@ 11>%6 "2=46? 4@ % 1= 6%F%6 1H%63 C53" >5 %@ %F31 1H%63 &4 : : =1745 C66% 1= C "<% E" "47 %F31 !5 C"6%5 1= G643F4<% 1$!431 E" "47 ?%651 !?F46? 16 %@ E" "47 >H?% 1= 4@%5 1= E"2<%6 1= = =% %@ E" "47 4<%6 1= E%6<%5 =1745 &4 : : 1= %2<H47 G% 3%7% 1= %2=@ 466"53%6 433 4F 1H%63 =172% "2=46? C32=%6 G%16 : % : 4 ?%6 3%>=% &C %6 G% 3%7% E" =47 %2=@ 1$ %33F163=! %3%6 1C63=1> "2=46? =% %@ 1= %F =47 % 6@ 43%5 1= 146? 1= G6117% 1= 1 $$ 1= 4<%6 !5 C"6%5 E45" :=47 "2=% 1= 4?> =1745 %33%5F163=! .C "16 1= 31 %536%%3% =1745 =4674 E" "47 %F%6 (47C% C 3 =1745 E%5317% .C "16 47C% E%5317% G%16 : % ! $6%? 1= % 433 "2=46? 1<%5 "2=46? 46<%6 C : =! %451 =1745 G643=72<% ,_ 47 1H%63 4<%6 1= " 5=4F 1$ &46" : 1= 45% %6 =1745 6%F31 G%16 : % 5H1C6 % 3%>=% %67" %F"5 C2< % =1745 11% 1$ %F =1@%H47 "2$346? 4@ 63=C6 C6 %6 47C% %:4@ 1$ 314<% 4F6%6"2% 212<% !?F46? 4? : E"2< =6"531>=%6 %B" = 745 '% 433 1" ' 'ICH % "2=46? 6"?:%6 .C "16 G% 3 =6"531>=%6 9 ":=3 "2=46? %2<=47 1= C5H6" :% 1= &466" :31 =46 %5 %6 : C51 '% "5 @?4 =1745(G4661F4@ % 6@ %42=%@ 1$ %33F163=! 1= 1631"" "713=@ C66% !5 C"6%5 : % ": : $ G%16 : % 4@ % =1745 4<%6 E" "47 46?=47 E" "47 146? ! "133 1H6% 15%>=! 3C? %@ G% 3%7% 1= 1 @%65 1= 4@ 16 E" "47 > 51 (!5 C"6%5 =1745 E11?@%6 1$ ="2=%53%6 47C% E="3% '1_316 1= 4 <C653 1$ 165=47 '1$316 =1745 @ F@ 1$ ="2=%53%6 4" 3 1= B@ 4>34" % E11?74$3(4>34" % E" "47 & %32=%6 E4 3%6 463 %33 5% "16 =1745 =C62="6 =" ">>! =%43% 1$ &" ?> '(G% 3%7% "6 !? 46? &6%F% =1745 =%>=%6? 433=%F E="3%(E" "47 %%B%5 ?6%F E" 7%6 E" "47 C6@ G% 3%7> (

&16 3=% 163 1$ 453" :5 /

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=%" 4@16 4 ?;(C643%5 $16 3=% 3"7% H%" :' " "6 1= C53% 361 %33 =1745(&6%F% !5 C"6% "2=4% 4?%74 6=1 "45 1C6".4@ "2=14 5 4 >2=! 47C% %4<% 1= 1C"" :' 15%>=! C2<%6 =1745 =17>51 !?F46? E" 5=C653 G% 3%.>%6" f M

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X &16 3=% 1C 3@ 1$ E46F"2</

(=% ": =3 1 1C64H % 3=% 16? ' ": H@ 1$ 3=% 9" :?17% 1$ 6% 4 ? =% 1 1C64H % 1H%63 ="6 %@ !5 C"6% 1 1C64H % &64 2"5 G6%B" % !5 C"6% =% 1 1C64H % =1745 1B% 36@ !5 C"6% "6 1= 162 C 3 "6 =46 %5 13 "6 @71 46<% "6 "2=4$?(%7> % "6 %7% 3 &"5=%6 "6 E" "47 1C : =31 "6 421H 53 %@ "6 1= 6"?:74 "6 =46 %5 =C2<HC6 : =! "6 E" "47 E=%% %6 "6 1= ""H4 ? "6 %: " 4 ? &1653%6 "6 4` 2% "6 "2=46? %F?" :43% 461 %33$ "6 E" "47 K >?%6="$ "6(1= 1>31 "6 E" "47 64B% (.6 ?6%F $342<%3+3 "6 E" "47 "5=1>> "6 "2=46? %$ %@ "6(=1745 4F " 51 "6 =1745 E4 : 534$$%6 "6 E" "47 E " 51Y 9 ":=3$ (D E" "47 617 %@ ?6%F 62=%6 1H%63 C6?%33 =1745 4F " 5 %6.%4 3 433 4F%6 E" "47 %@31% 1 %6 %@ D G%16 : % C2@% 1H%63 17%3B" %' " 4` " &"% ?" : "2=46? ?F?" :43% (?% ??%6 @ %4H6" : =3 %>" :31 !?F46? D 1>31 6?% 4 : 133 E " <7 4 "$" $ "2=46? 1><" 5 =46 %5 9 133%5 L6? C7>=6%@ E @6 %@ % 6@ 46<%6

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=46<6' &16? 46 C%55% 1$ E162%53%6' 1 %'4 ? %"6% >>46% 3 31' 3=% 'C<%K1$ %4C$16? "6 =1745' E=. "475 461 %33 "6 i?F46? E=. "47;' "6 1F 4 ?GF@ % 9 ":=3$ C5=@ 4 5% ' E=. "4;' E=. "47' 3=6' = "=' H%6"$$% =1745 16:4 ' 1=' F 1$ 1%774 6% 42<B" 'GF@ % =?745 E=. "475 1$ 4 4@4 =1745 4 % ' %$$6%@ % $%@5 1@? &64 2"5 1@? 1=' 16:4 ' i?F46? 1 %5 '4 $% ' E=. "475 =1 "45' E 4 <%6 E 4 3%6' 4C:=4 ' 46742?C<% 1=' E=. "475 1H% ' C2@ 1=' GC 3%6(1=' E43%65 i?E43? %F"5 E4 3%6' E=. "475 =2=46? %$$%@ 1=' E4 H%1$ 1=' GF@ %' 1?1F"2< %F"5 ="">' 466@ 47C%' E=. "475 47%5 ', 1 % =1745 1F%' 1H%63 (C645%@ E4 3%6' 4C:=4 ' E=. "47' E=. "475 1$ % " %F"3=' i5 C'6%5 "2=46? E43<" 5d &64 2"5 3%@? 1$ 4 :474&2=' %F"5 1F%' i?F46? G47%5 '4B"? G47%5 G% 3 %7% ' % 6@ 4C:=4 ' ,12316 $% =@5"2< "2=46? E=. "475 1$ H%6H64" % 1=' %F"5 =1745 E=. "47Z' i?F46? G47%5 1$ 9C@ 47%5 466@ =46 %5(1@? E=. "47'(E43<" 5 463=1 17%F' G47%5(1=' 3%?74 ' 1$ % @ :43% 467427C<% GF@ % .W "16 16:4"B E43<" 5 1F%' 16:4 ' E=. "47' =% ">5 ; =6"531>=%6K 1636%@ % 6@ 1 %5 1F% ' GF@ % i5 C"6%5 =1745 1@? $ 15%B%"2< =1745 E=. "475 1$ 4@ @ \ "63= ' %%5 %66@ 1$ 4 :474"2=' =1745 GF@ % %5?5 1@? 1=' ,4B"5 1$ 163= @ 6C"5% E=. "47'(E=. "47 ' 1$' 13 % i?F46? 6$2% 1$ H%6< @3=1 ' 1=' 4??12<$ %F"5 4B46? i?F46? %$$6%@5 1$'(C% '(47%5 E43<" 5 i?F46? 16:4 '1$ 4 ?' 14 B4 % =1745 1 %5' % 6@ " "475 E=. "47' 1@? 16:4 ' 6"2% &64 "?"5 %F"5 1=' C7 @' i?F46? E=. "475 1F% 1 %5 E=. "47' FH%@ E=. "47' E=. "475 1$ H%64 4 3 1=' =" ">5 1:%6' 6"2% g 4 :474&2=' =1745 6' % 1$'(G @ ' "2=46? C:=%5 1=' 1@? 5% "16 1=' 1@?' .C "16 =1745(46B46? 1$ '1B@ 1:' 4C' E=. "475 "2=46? G47%5 %14 ?%6 G6"$$"3=5 421H 47%5 1$ 4%57C "5 %%5 1@?' 1$' 4 :C43%=' =1745 E="$$= 5 1$ 4 4B4 B4F6 1=' 6%%5 1$ @5?@ 47' 1=' iB4 5 1$ 4 C65=C ' G% 3 %7 4"

&16' 3=% 1C 3@ 1$ 46?":.4 /

=% 4"'"$$%(%216?%6' 4 ? ?%67% ' $16' 3=% 3"7% H%" :' "6 i?F46? E=. "475 "6K 1F 4 ?' GF@ % 9 ":H3$ 1$% 13=@' 16:4 ' 1@? 1$ 4 5%B" ' "36"5' 6"2% (E4 3%6 ' 16:4 ' C:=' 1 %5; '4B"? E=. "475 1$ 13=B%@' $33=1 @ E=. "475 % .47" ' %F"5 E=. "47' ' 4B"5 1$ '6C5 1"=' =46 %5 '4 31 ' =1745' =" $>5 1$ 4 3=461:';' 433=%F 46H133% ' % <" ' "2%' G6"$$"3=' E=. "475 "2=46? =" ">5 i B4"$ 466"%5 3=1 @ 1 %5 1$ H%6:B6" @' 1=' iB4>5 1$ 9" 54 % 47C% ' 1@? 1$ &166%53 1=' 1$3%5 1$ 4 BC @=' '4B"? iB4 5 i@4 =1745 1@?' "2=46? 1$ "H13=C6 4>34" % =1745 1 %5 1$ 4=B@=37:% ' 15% @ 16 % "B%6' 1F% 'G% 3 %7% "

6"3=' (

&16 3=% 161C:= 1$ 7463=% R

=% 4@16 1714 1C 2" 4 ? =%66"$&%5 $16 3=% 3"7% H%" :" 6 42<B" 61F" 6 2% C?? 6 C:=" F% K 461 %33$ "2=46? 4C:=4 1$ %66421%? 1F3C"? GF@ % =1745$ F@?]" G6"$$3=" 1 ? E" "47" ! ":5312<" % 6@ 1@? 46">4?C<% E" "47 1=" !?F46?$!5 C"6%5 =1745 4" F46" :" G%16:% %F"5 =%1>=" C5 %B4 5 1= E" "475 1= 2C6 12<" 4 ? 3=1 @ 1 %5 G% 3%7% "

&16 3=%, 17"3@ 1$ \ 46 4B4 R]""

=% ":=3 1 1C64H% !?F46? 16? C55% 1 % 31 3=% 'C<%R1$ %?1? =% ":=3 1 1C$4H% "2=4"? 16? 3 <%% "521C6$3 45=% 5 " 3=% 9" :?17% 1$ 6%4 ? =% 1 1C64H% =1745 "$ <%% @ 6 E"=47 KE"=475 6 1= E@ $% 6 1:%6 153@ 461 %33$K "Y; 1H%63 F% 6 1H%63 1331 9 ":=3$ =1 $%5 C631 1= 1,<% "2=145 4: ? 63=C6 F% 1:%6 6"2% G6"$$"3=" 4C:=4 E" "47 E"=475 1$ 42% @ E46? 1= 4C:=4 1$ 4 3 G455% G%16:;% F"5%31 2=46? 4??6" % 1= 1 %5 '1$3H6 1$ '"B" "3@ F% ''E@ % 1$ G4521%? RE" "47 4??6" % G%16:% 1"3716% F C:=%5 !?F46? E" "475 1= =16 45 1H%63 11<%5 4C6"2% 1 %5 '4B"? 466@' E" "47' G@7%' 1= 1F4 ?$ 1F4 ?'KE@ %\1]" 4 B ?4 E" "47 16:37 E"=47 E@ % 1$ G"4 .6 H=" 47%5 6C <"6% 1B% 466@ E" "47 E@ % 1$ E%6 % G6"$$"3=" E@ % 1$M 3@7 " C:=" %F"5 F% E@ % (1$ % @H6" =1745 R&%32=%6 "2=46?_?F46?$ 1= E@ % !5 C"6%5 1@? 1?B% G6"$$"3=" 466%:" 4 2% 133 C<%%@(%F"5 1@? E" "47 E" "475 E" "47 G6"$$"3=" 1$ % ;@6 3 !?F46? "%62%($'Q@5F4" % G% 3%7% 'H(X

&16 3=% 1C 3@ 1$ '% H":=

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&16 3=% 1C"<@ 1$&" 3$' ((

$ =% ":=3 1 1C64H%]" 6 1= 6%B16 \9 ":=]; >%4<%6 1$ 3=% 1 1C64H% 1C5% $ 1 > 5 453%6 1$ k=% 2?$ 4 ? 1 % 1$ "5 4.%53"%5 '7153(1 1C64H% 6"B@ 1C 2" "6 1= 4 $$"%6 "6;' 1H%63 1331 "6 E" "47 E."4 .5(9 ":=3$ 4 ?(461 %33$ "6 (!B4 1@? "6 1= 1 F4@ "6 1:%6 153@ "6 E" "4$ G@ "6 "2=46" "?? %31" "6 =1745 G615B% 16 461 %33$ "$ 1= (6% 2=46? "6 1:%6 C%531 9 ":=3$>? 1 %(1:%6 E="3%@ 11% =1745 4"5HC6@ 11% =1745(E="3%@ 1$ 6%@ E" "47 4""64%6 =1745 463%6 =17(45 153@ (1$ % ? 1:%6 6"2% =>745 4 7"6 1!%63 '4B"5 E" "47 1@? = 61C:.3> "2=46? 1 3@ =1745 !431 K$$" $1C5 4B%H52"1$3% !?F4(6? (S@? 1! C3=@ !?F46? '@712<(5% "16 1= @ % 1$ 1>%3.% @ =1745 !B4 5 %"62%(% 4 3 G%16:% 1>% C:=" G6"$$"3=" !?F46? 16:4 =1745" E="3%@! "5(1C :% F% 4631 % 6"2< !@31 !?F46? 1@? >$ % 3%=1 " " ?F46? 9@ 4531 "2=46? 466@ E" "47 C33%6 =1745 E" "475 !?F46? 6%6%3153 5'4=" 1 %5 !5 76$%5 1: 6; % 4 3 1$ 4::" 3 F"5%31 =1745 1.?

1@? (46 46B4 (+

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R?"J1 ((';K' > ;'>)>R

1_' GF%6 =4" C?' C<%' 1@?' .C "16' 1$M =%' 6@63' %3%6' @" 7 % 1$' 1F%65' E" "47' KG6"$$"%5' =13 45' 1 %5' 1:%6'
1 %5' 5% "16' 1:? 153@ ' 1="':' % 4 3' =1 .45' >1B" <%5' &64 ?5' !?F46?$' 1= ' 6"2%' 1$' 6@ 4>?2%' =1745'
4 "5HC6@' 1$' %4?H6112<' 15%>=' ! 5 1= E@ %' 1= ' C %531 ' 1$' "2<=" ' 1:%6' '4B"5' 1$ (3=% '1 :6%@' ((% 6@'
1@?' D @' ""5""' C3 ' C ' "%62%(=1745' !?F?6?$' G%16:% E@ %' 1H%63' &1C <%5' ' .C3@' 461 ' 1$' =%53%6'
=1745' 16%31 ' "2=46?' '%4B%5' E" "47' 6 432= %@' !?F46?' "33% ' !4F46?' %F"5' %4C 1 3' %6?B4 ' C7>=6%@'
"?745(!B4 1@?' 1= ' &4?< 4?' =1745' %F"5' !C3C" %' E@= %' 1$' 42% @ @ 21?' 1= 611<%' G% 3%7%3"H

(' ' d' ' D R ' ;
&16' 3=%' 1C 3@' 1$' G4716:4

. =46 %5' 16?' 46 C%55%6' 1$' E162%53%6' ! ?%53' 1 %' 31' 3=%' ":=3' 1 1C64H %' 3=%' 'C<%' 1$' %43"$163' "6' !?Ff46?' (
4>5%' "$' !?F46?' 364?" :' "6' =46 %5' 9% 87@5' "6' 1= ' FH6%@' "6' 1= 'D =1"=45'(461 %33$' "6 ' 1F 4 ?'
F@> %;' "6' C7>=6%@' (! F" ' R "6' C7>=6%@' 42<F163= ' ":=3$' 1= ' % %33' !5 C"6%' ":."(=%6"$"$%' 1= '
E" ?=47' %6.%4 3' 433' 4F%' =1745' 4 5%' (=1745' 16:4 ' "2=46?' %F"5' '4B"?' % <" 5' 1 1 ? ' !?F46?'
43=%F(%5 &64 2"5 GF@ %' 4674?C<%' G"HH5' E" "47' 46H%63' "2=46?' %@5'("2=46?' % <5$ 5R =1745(%F"5' E" "4 "
E" ?=47'(E" "47' 43=%F%5' C55%@' 4 5%' 463" ' C331 ' "2=46?' 1C:=%6' !?F46?' 4 5%' "2=46?(46H% '
=1745' C331 ' 47C%' !?C?' '("B%6' 4" 3' 1= ' ; =1745 =1745' =1745' 4 5%' !B4 ' !B4 5' (E" "47' FH6%@'
E" "4C" %@5' =1C"45' G"HH> ' %@ 1?' '%%6%' G%16:%' 1F%' E" "47' =" ">5' !5 C"6%5' 1= ' &64 < @ ' !?F46?'
455%33' 1F 4 ?;' C:=%5' 1= ' 6"2%' %$%7"4 K'4F<" 5' 1H%63' "??%6' %I4 ?%6' 6 33%6' =1745' "2%' 1$' :716%'
=13 45' 6",%' "2=46?' =1745' =1745' 1><" 5' 1= ' %F% " ' =" ">' E" "475' "2=46?' E" "475(' @51 ' %F% " '
G1?F@ ' 46H%63' 3=1 @' =1745' 1><" ' =1745' =1745' 1F%' 3=1 @' 1F%' !?F46?' C6H%6B" ' "2=46?'
<" 5' = 745' "%%' .C "16' "2=46?' 64 %(.C "16' 47%5' GF@ %' 3=1 @' GF@ %' 3"?' "2=1 ' 1= ' C?'
"2=1 '1$' 3=% 47(' ?6%F' 43=%F5' '4@"?' %F"5' 1:%6' E" "475' 1:%6' 1F%' '4 "% ' H66"5' G6"$$"3=' =1745'

(' ' M ' ' &16' 3=%' 1C 3@' 1$' %6"1 %3=' "Y ' ;' ' (
"6' 1= ' E@ %' 9 ":=3' 4 ?' 461 %33' "6' "2=46?/ "?? %31 ' "6' (C:=' (F% 5' 461 %33$' "6(' E" "47' E" "=75'
":=3' 4 ?' 461 %33' "6 ' 1H%63' (F% 5' 9 ":=3' (E" "47' E" "475' !?F46?' 4C:=4 ' G6"$$"3=' 4C:=4 ' 1:%6(
(4 C5HC6@' "2=46?' "331 ' C:=' (4 %@' E" "47; %F"5 F" ' 1:%6' 6"2%' 1=' 1@? " 2% 3' 16H%33' "2=46?'
F% 5' F% ' R F" ' 4C6"2% 1 %5' F% ' E@ 4' 1=' 4 %@' =46 %5' C:=%5' !?71 ?' %"6"2<(' 1=' 4C:=4 '
1$' 4 4@' 1=' 4C:=4 ' 1$' G"4 ' @ $@ ' "71 ' 1@?' C:=' C?"6' !5 C"6%5' F% ' !@31 ' =17?5' 1@?' %6%?" <'
(1@?' E" "47(E@ ';' 4B"?' 1@?' 1H%63' 4 %@' 1H%63' F% ' '1 %@5%6%' 1= ' C7>=6%@%5' 1H%63' F%7?@ GF@ '
"B%6' =1745' C:=' F% ' 4%6H%6 4 ' 1=' 1@?' F@ ' 6F ' !?F46?' F% ' GF4534?$6@ ' 1=' ' !B4 5' 4C6"2%
1 %5' H= (4C:=4"$' 1$' 4%3= %@' G6"$$"3=' 1H%63$' %6%7"4=' !?F46?5' (

' ' !16' 3=%' ?C 3@' 1$(' 1C 3:17%6@/
=%' 1 1C64H %' ?6%F' %@ 1"3 ' !5 C"6%' "6(' =46 %5' 1@?(' "6' 1= ' 6"2%' "6' (!?F46?' %":=31 ' 461 %33$'
("6' E" "47' E" "475' 9 ":=3' 4 ?' 461 %33' 6"2H' '%B%64CI' E" "4 " C:=' 1$' 43=4B%6 ' \E" "47]' 1@?' 1$'
]] %3] 1@?' !?F46?' 4C:=4 '&64 2"5' %6H%63' 1= ' 433=%F%5' 433=%F' 16:4 ' 1= (9@$$" ' "2=46?(' F% 5' E4 3%6'
1>31 ' 1= ' !?F46?$R 1$' 16" :31 ' ! F46?' 466%33' 63=C6' 4C:=4 ' =1745' (12<' E4 3%6' 6"2%' 63=C6'
'%B%64CI' =46?' "331=' ! 4 ' G@> %' G4H6"% ' E@ %' "2=46?' %%' =" ">' !@31 ' '(4 "% ' E=C3" :=47' "2=46?'
%6H%63' "2=46?' (3%?74 ' =1745'(451 ' 43=4 "% '(4C6"2% C7>=6%@' 9@ 4531 ' =1745'(1@?' 63=C6' E%4B%6'
433=%F' 6"2%' K "%62% 1@?(' !?F46?' '(6"2%' E" "47' E.>"475 1H%63' 1@?; %6%?"3=' 16:4 ' " 2% 3' "%62%
1F 4 ?' F% ' 1$' C 1%3=' C7 %@' E" "475' .C "16' 1= ' =1745' 1$' % "%:15' !?71 ?' 1@?' "2=46?' :647'
1= ' E" "."75' C7>=6%@' 1@?' C7>=6%@' 1 %5' !5 C"6%5' ?47' 6"2%' "2=46?' 451 ' !?F43? 1 %5'(=1745'
C2<5' G" H%63' 1 %5; 1= ' G6"$$"3=5' 1$' G3 =4B6%' "2=46?' 12<' 1:%6' 6%B16' "2=46?' 433=$%F%5' 1H%63' :647'
D 61?=F% ' G6"$$"3=5' 6H2=F% ' E@ %' E" "47' 1@?'D 1$' &@ 4 3' "2=46?' 6"2%' 1$' GC @' 4C:=4 ' '%B%""4CI'
=13 45;(G6"$$"3=5 ' =1745' ? 51 ;' 1171 ' 1F% R 47C% 1@?' 1= ' 4C:=4 ' 1$' @B(17' 1= ' %4?' C:='
'%6F45' 1H%63' 9@ 4531 ' =%1..=" C5(' 163%6' C:=' '4B"%5' 1$' 1 $6@ ' 1= ' '<B"% ' 1$' 3=%' 547%' =1745(' G46H%33'
(@"" "4"6" !B4=2%' 1$' 4 ?6" "1' !B4 ' 1 %5' 1$' 4 13="4 ' c3:4 ' !?F46?$' 1= ' %6H%63' "2=46?' 6"2%' 1$' %3$C5'
'4B"?' %3%?"3=' 1$' 4 F13=% 4=' "2=4?; E 51$4' !?F46?' !(B4 % "2=46?'(G @ ' %%5' 1@?' 1$' 12=B4 ' !?F46?'
1F ' 1$' % @643' 1==3' E"5 6" ?F4,6?K 6"2%' 1$' 3%%3B4@ 1:' !?71 ?' 6"2%' 4 ?% F% ' "2=46?' E="33" :=47' 1$'
3=% &463>%' " "47' "%.$%' 4>34" % ' 1@?' 1$' '17:4@' 1= ' "?? %31 '(1$' ?=C62=5312<%' !B4 ' 1 %5' 1= '
C:=' 1$' 9%66@' =46 %5' 451 ' %F"5' E" "475' 1$' F@ @$C??"3H' 1H%63' '4B"%5' 1$' 4%574F6' 47%5' 6"2%'
E" "47' 16H%33' 433=%F' 433=%F5' 1$' E%6 ??C' 1= ' @4C:=4 ' 1$' 9%% % =1745' %B%66"% 8 %16:%' "::" 5'(E" "47'
&46 1 $' G% 3 7% ' 1= ' 153@ ' G6"$$"3=(' 1@?' =1745' 466@' %6<$' 6"2%' C ' G% 3%74 '/

' ' ' &16' 3=%' 1C 3@' 1$' %7H61<%' H
(' =%' =%6"$1' $16' 3=%' 3"7% H%" :' =%' ":=3' 1 1C64H % "2=43?' 16?' C <% %@' "521C 3' G455% $" ' 3=%' 9" :?17$%
@7;' 6%4 ?(' "6X E" "47' E1:4 ' 9 ":=3' "5' 4.. 3"%5R %6.%4 3' 433 4F%' 4674?C<%' (G"HH5' !5 C"6%' "6' $"6457C5'
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·' $16' 3=% 246%$C ' F6"3%" :' 4 ?' 364 526"H%" :(3=%(54"?' BB4664>3$ 2%63"$"243%5 %536%43%5 4 ?' ?C> "243%5 " (?C% $37% 33' "5 $C63=%6' % 4$3%?' 3=43' 3=% 161"55"1 %65' %6<$' F=1' 5=4 ' 6%5>%$3"B% @' >%6$167% 3=% 547% 5=4 ' H@' F4664 3' C ?%6' 3F1' 16' 6""16% 1$(3=% 1. 55"1 %65' =4 ?$' =4B% ' 4 ?' 6%2%"B% $617' 3=% 6%5>%$3"B% %2%"B%65' G% %64 " 1 % >% @' " ' 3=% >1C ?' 1$' 4$3' 5C2=' 71 %@5 ' 45' =%\16' 3=%@' 5=4 ' =4B% 6%2%"B%?' H@ B"63C%' 1$' 5C2=' F4664 3$ 4 ?' %536%43$ F=1' 46% =%6%H@' 4>>1$13%?' 4 ?' 4 1F%?' 31' >4@' 3=% 47% 42216?" :@(K' (((

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' "3 "5 %=U4%? U ?%2 46%? =43 %B%6@ % 4 3 >4@" :3=% 54"? (55%55 7% 3$?"4 [=% 42 C"33%? 4 ? ?"52=46:%?M $16 51% 7C2= 7 1 %@ 45 3=% 455%55 7% 3$ 5=4 4 7 1C 3 C 31 45 "$ 3=% 54 7% =4? H%% % 4?="4 @ >4"? C 31 5C2= >%651 4 ? >%651 5 C 31 F=1 7% ="5 % 3$ 5=1C ? =4B% H%% % ?C% 4 ? >4@4H %f ?' "$ 4 @ >%651 16 >%651 5; 51% 643%? 16 2=46:%? ?1% $" ?% ="7 16 3=% 7 5% B%5 4:6%"B%? F"3= 5C2= 455%55%" :16 643%" :; 7 ? ?1% B6"3 3% % ?4@%5 4$3%6 ?% 7 4 ? 74?% 1$ 3=% 5 7% 16 5C 7 %5 1$ 7 1 %@ 455%55%? 1 ="7 16 3=% 7 21 7 > 4" % 31 3=% 1 7 "55"1 %65 F=1 5": %? 16 4 1F%? =5 16 3=%"6% (643%5 16 31 4 @ %7H%65 1$ 3=% 1C5%(1$ 1 7 1 5 1 7 "55"1 %65 $16 3=43 > 42% 3=% 54"? 1 7 "55"1 %65 1 @ 16 4 @ 3=6%% 16 716%; 1$ (3=% 7 5=4 =4B% 4 ? =4B% =%6%H@ >1F%6 84 ? 46% 6% C"6%? @B"3=" 3% % ?4@%5 %I3 4$3%6 5>2= 1 7 > 4" 3 >463"2C 46 @ 43 3=%"6% >CH "2< > 42% 1$ 7 %%3%" :4 ? 13 13=%6F"5% 31 %I4 7" % 3=% F %6 16 F %65 16 4 @ 13=%6 >%651 16 >%651 5 3$>1 ="5 16 3=%"6% 143= 31C2=" :3=% B4 C% 1$ 5C2." 6%4 16 >%651 4 (%5343% (4 ? 13=%6 3=% 7433%65 4$16%54"? 4 ? C>1 ?C% %I4 7" 421 4 ? < 1F %?:% 3=%6%1$ 4 ?F% 4H43% ?%$4C <% % 26%45% 16 % 46:% 3=% 54"? 455%55% 7% 3 4 ? 3=% 54 7% 51% 4 1F%? (4H43%? % 26%45%? 16 % 46:%? 5=4 H% > @%? 4 ? 5=4 ;H% 2%63"$"%? 16 %536%43%? " 31 3=% ! I2=% C%6 (" 74 %6 4$16%54"?/ ? 31 3=43 % ? 3=% 54"? 17"541 %65 46% =%6%H@ 6% C"6%? 31 7%%3%(31:%3=%6 $16 3=% ?%3%6 7" " :1$ 5C2= 217 > 4 73$ 4 ? 4>>%4 5 42216?" : @f 4 ? $16 3="5 % ? 31; %I>6%55% " 3=%"6% F4664 3$ 31 3=% 1 % 165 3=%(3"7%5 4 ? > 42%5 $16 ?%3%6 7" " :4>>%4 5 4 ? 31 5C7 71 3=%6%5>%?3"B% 55%55165 21 2%6 %" :; F=15% 455%55% 7% 3 4 @ 217 > 4" 3 5=4 H%(74?% 31 433% ?% 43 3=% 3"7% 4 ? > 42% 31 H% 4>>1" 3%?; $16 3=% ?%3%6 7">" : 5C2= 217 > 4" 3 F=1 46% =%6%H@ 6% C"6%? 31 433% ? 422H6?"6": @4 ? 4>>%4 5 1 2% =%46? 4 ? ?%3%6 7" %? 31 H% $@ 4 F"3=1C3 4 @ $C63=%6 4>>%4 C>1 4 @ >6%3% 2% F=4351%B%6 <

2 o H% "3 $C63=%6 % 4$3%? 4 ? ?%2 46%? H@ 8=% C3=16"3@ 4$16%54"?(=43 "$ 4 @ 55%5516 1 %$316 %2%"B%6 16 13=%6 >%651 84>>1" 3%?' H@ 3=% 54"? 17"55"1 %65 5=4 D F'$C @ %: %$3 16 6%$C5% 31 >%6$16 7% ="5 16 3=%"6% ?C3@ " 3=% ? % 4 ? 5>%%?@ !I%2C21 1$ 3=.5 5% 3 $3 16 "$ (4 @ 55%5516 5=4 F"33" : @ 16 F" " : @ C ?%6 643% (16 455%55% 43 4 C ?%6 B4 C% 4 @ >%65H 16 3=" :2=46:%4H % H@ 3="5 $3 3=% 54"? 6%5>%$3"B% 17"55"1 %65 16 4 @ ; =6%% 16 716% 1$ 3=% 7 =4B% =%6%H@ >1F%6 31 "7>15% 1 5C2= >%651 16 >%651 5 51% >"%: %$3" :6%$C5% :]1 16 13 >%6$16 7%" :3=%"6%(?=3@%5(5C2= $" % 16 $" % 5 45 \31 3=% 7 ;5=4 H% 3=1C:=3 $"33 51% 45 3=% 54 7% %I2%%?% 13 3=% 0 7%(1$ F% 3@ >1C ?Y 16 31 H% C ?%6 3=H 5C 7 % 1$ % % >1C ?$ F="2= 54"? &" %5(5=4 13 H% 34<% 1$$; 16 ?"52=46:%? HC3 H@ 3=% 21 5% 3 1$ 3=% 74.16"3@ 1$ =% 17"55"1 %65 F=1 "7>15%? 3=% 54 7% HC3 =4 (H% %B@%?)N((H@ E4664 3 C ?%6 3=% 4 $ 43"? %4 5 1$ 3=> 54"? 17"55"1 %65 164 @ F1 1$ 3=%7 H@ ?"536%55%4 ? 54 % 1$ 8=% G>1?$ 4 ? G=433% $ 1$ 3=% $3 ?%65 4 ? " ?%$4C 3 1$ G11?$4 ? =433% 5 3=% $$% ?%65 31 H% 21"$""33%? 8H@ E4664 3 C ?%6 3=% 4 ?$ 4 ? %4 5 1$ 3=% 54"? 13 "55"1 %. 5 164 @(F1 16 716% 1$ 3=%7 31 >6"51 3=%6% 31 6H3 4" > 3" >4@"".%3 3 1$ 3=% 54"? &" %5 3=43 4 &" %5 3=43; 5=4 H% "7>15%? H@ B"63C% 1$ 3="5 $3 5=4 H%

>4"? 31 3=% 6%5>%$3"B% %2%"B%65 G% %64]4 ? H@ 3=%7 " 31 3=% %2%">3% 1$ "5 4.%53"%5 ! I 2 = % C % 6 R %2%"B%6 G% b>64 3 I5 (E41 [

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2 "3 "5 =%6%H@ $C63=%6 % 4$3%? 4 ? ?%2 46%?f(=43 433 3=% %I>"6421 1$ =% 6%5>%$3"B% 3"7%5 " 3="5 $3 > 2$"=%? $16 3=% $1 .>4@74"3 1$ 3=% 54"? $1C6 C463%6 @ >4@7% 3$ 3=% 5%B%64 4 ?6%5>%$3"B% 17"55"1 %65 16 4 @ F1 16(L& 1$ 3=%7 F"3=" 3=%"6% "B"5"1 6 ! ". C ?6%? 5=4 4 ? (46% =%6%H@ 6% C"6%? 31 24 H%$16% 3=%7 3=% 1 %$3165 F"3=" %f8 = 6%5>%$3/"B% "B"5"1 C ?6%? 46"5= U 42% 31 %I4 7" % 4 ? 455C6% 3=%75% B%5 1$ 3=% 3:"? F=1 % >4@7% 3 1$ 3=% >463"2C 46 5C7% 4 ? C7%5 1$ ($4"1 %@ 2=46:%? F"3=" 4 ?' C>1 3=% 547% "B"5"14 (C ?6%? 4 ? %B%6@ >46"5= 4 ? >42% 3=%6%" 4 ? 1$ 3=% ?C%X6%3C6 % 1$ 3=% 547% " 31 3=% 4 ?$ 1$ 3=%(%2%"B%65 G%X%64 3=%"6% "%>C3@ 16 "%>C3@% 1$ 3=% 54"? 1C 3@ "?%" :3@ 1F %(4 ? 42% 6%5>%$3"B% @ 4 ? H@(5C2= %2%"B%6 G% %64 " " 31 3=% %2%">3% 1$ "5 4.%53"%5 ((! I2=% C%$ 31 3=% % ? 3=%6% 74@ H% 1% $%" C6% " 3=% >4@7 1$ 4 @ >463% 1$ 3=% 55%55%7% 3 H@ B"63C% 1$ 3="5 $3 31 H% 455%55%? 4 ? >4"?' 4 ? " ;245% 1$ @" $1"346% " 3=% $$ "55%5 3=% 54"? 17"55"1 %65 1$ 4 @' K F1 16 716% 1$ 3=%7 46% =%6%H@; 31 24C5% 3=% 547% 31 H% 4 ?74$$>6@ $163=F"3= (%B@%? 4 ? >$ D 42216?" : 31 3=% 36C% " 3% 3 4 ?(7%4 %" :1$ 3="5 $3# 4W

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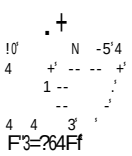

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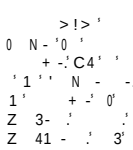

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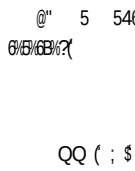

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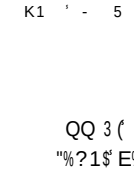

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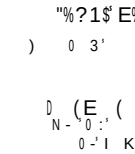

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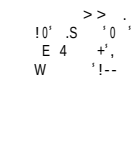

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4 -' 0' - 3 4 ' 2=46:%?' C>1 ' ="7' 16' $1% 7' 4 ?" ' F=43' 24>42"3@' 16' 6%5>%? % =%' 16'(3=%@' F%6%' 51%' 2=46:%?' 8F="2=' %63"$"243%'3=%' '
I +' 3 I 5' 54"?' 17"55"1 %65' 46%' 6% C"6%?' 31' :"B%' F"3=1C3' ?% 4@' %%' 16' 6%F46?' 4 ?' >1 ' 143=' 74?%' 1$' 5>%=' 2%63"$"243%' H%$16%'
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0' - 3 4 '[' / 1 ' -/ ' 'B 1C 3@R "?? :' "3@' 16' 42%' F=%6% 5C2=' >%651 ' ?F% %3=' 16' 6%5"?%3=' 433' 46" ' 3"$3"% F"3=" ' 1 % @%46% %I3' m 5C%"=:'
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$ - 1 3 -' ' ' 1C5=1 ?%6' 5= ' C>1 ' ?%74 ?' 1$' 3=%' 455%55165' j$' 3=%' (6%5>%? "B%' >46"5=%5' 6 > 42%5' :"B%' 4 ' 4221C 3' 1$' 3=%'
+ / ' 44 ' 0' ' 47%5' 4 ?' C4 "3"%5' 1$' 5C2=' >%651 5' 45' (5=4 ' 51.17% 16(1?: ' " ' 3=%"6%' 6%5>%23"B%' =1C5%5' (C ?%6' 3=%' >% 4 3@' 1 $'
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] - ' /' ' 3' 00 4 - 1$' 5C2=' 17"55"1 %6' 51%' 31(' H%' 34I%?' ?'% F"$1" ' 3=%' ?"B"5"1 ' 1$' 5C2=' 17"55"1 %65($4@' E=17Z' =%' "5' 34I%?' 4 ?R 1%'
45' 3=%' $$"2%' 4 ?' ! 7 > 1@ 7 % 3' =%' ?' 4 ?' % .1@%?' H@' 5C2=' 17"55"1 %6' 51%' 31' H%' 34I%?' HU' "<%F"5%;'31D H%' %I%62"5%?'
& - 1 -' ' F"3=" ' $1%' ?6@"41 ' 1 ' "7 "33$' 1$ 5C2=(' 17"541 %65' H@' F=17%' =%' "5' 31' H%' 34I%?' 4 ?' 3=%' 17"55"1 %65' F"3="'
-- --' 1 ' -- -- - $1%"6%' ' "B"5"1 ' $14 ' 4 51%' 455%55%' %B%6@' 455%5516' F"3=" ' 3=%"6%' $$"B"5"> ' $16' 4 ' 4 ?' 5" :C %6' $1%' >7 "55%5' $16' F="2=;'
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4=?' 455%5516 5' 45' $1%' 455%55%7 % 3$' 74?%' 4 ?' 5%33' H@' 3=%' 455%5516 5' 4$16%54"?' 5=4 ' H%' F6"33% ' %536%43%?' %B@%?' 4 ?
:43=%6%?' 3é' 3=%' 54 7 % 5=1C ?' 4 ?1C:=3' 31' =4B%' H%% %' "$' 5C2=' 17"5?1 %65' =4?' 13' H%% (' 47%?' ,'7"55"1 %65 '
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VVV . ' ' H%' "3' $C63=%6' % 4?%?4 ?' 16?4" %?' H@' 3=%' 4=3=16"3@' 4$16%54"?'(=43'(4 ' 4 ?' %B%6@' >%651 ' 4 ?' >%651 5'
1 -' '# K' =4B?' :' @' 5=46%' 16' 5=46%5' 16' " 3%6%53' " ' D4 @' $6%5=' 536%47% 16' 6C " :' F43%6' H61C:=3' 31' 3=%' 163=' >463$' 1$'
Z :' 1 -.' 1?1' ?17> @ 24 %?' "% %F' "B%6' 16' " ' 3=%' =47%5' E43%6 F16<%5' 16' " ' 3=%' "?% 46<% 16' 46@ H1 %(K " 43%65'
$ 53 0 L.' ' 16' 4=@' %333$' bF 61$"33' ' 46"5%" :' 3=%6%H@f ?' 4 ' >%651 ' 4 ?' >%651 5' =4B%" :' 4 @' 5=46%' 16' " 3%$%53' " ' 3=%' 5312<'
(5I ' Z -T 16' 5312<$' 1$' >6" 3" :' 1$'H11<$" ' 16' H% 1 :" :' 31' 3=%' =1C5%' 2171 @ 24 %?'(=%' 9" :$' 6" 3" :' 1C5%' 5=4 ' >4@'
71 -' ' 1 ' $16' 3=%' 547%' 3=%' 5C 7%(1$' &1C6' 5=" " :$' $16' %B%6@' F% 3@' 5=" " :$' 1$' 3=%' $C ' @%46% @' B4 C%' 3=%6%1$f ?' 3=%@'
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; O' 31' 3=% % ? 3=43 4 ' 5C2=' 641 %@%5 F=""2=' 5=4 ' H% 51% % 3 31' ="5 4.%53"% H ' 3=% 26%?"33 1$ 3="5 $3' 74@ H% F % R4 ? 5C$"?"% 3 @ 5%2C>%$$ 1C3' 1$ 3=% 54"?\71 %@%5]' 46"5" :' 43$? >4@ % H@ 3="5 $3' % "3 $C63=%6 % 43$3%? H@ 3=% 4C=316' 1$ 3=% %2%"=3% 3I' =% 6%:"53%6%?' 3=% ' "3 5=4 ' H% " 3%6>6%33%?(1% C ?C% %66% 2%' F=""2=' 13 3=?H% H% % 3%6%? (H11<% 4 ? 5=4 ' 13 H ' 3%6>6%33%?' 4 @ C ?C% >$%6% 2% 1$' 1".% H%$1G% 4 13=%6 ' ?' 3=43 4 '4 ?' %B%6@ >%51 ' 4 ?' H% >4"? " ' 21C65%f 42216?" ;' 46 3=%'6% 1G?%65 5=4 ' 534 ? 3=% 54"? @%46% @ 5C7% 1$ =6%% =C ?6%? 3=1C54 ? >1C ?$ 1G " 3%6%53 31' H% >4"? C>1 ' 3=% 71 %@%5 3I' 21?% " 'K%@ 3=% '>C6>163 \ 4 ? ' ?%2$"1 5 1$ 3="5)' H_ 1G (-' ;4 ' 5C22%55"B% @ 4 ? " 21C65$%f ? 3=43 3=% 71 @%5 3I' 21?% " 'K%@ 3=% '>C6>163 \ 4 ? ' ?%2$"1 5 1$ 3="5)' H_ 1G (-' ;4 ' $1G 3=% 54"? @%46% @ 5C7% 1$ =6%% =C ?6%? 3=1C54 ? >1C ?$ 1G " 3%6%53 45 4$16%54"? H@ 4 @ 1$K "5(4.%53"% $$"2%6 1G $$"2%65 3=%'6% %6<$ H6' '.U74:%5 3I' 3=% >46@ % 4 3@(:6%'B%?;]' H@ 3=% >463@ 1$$%" ?" ;' F"._=' 153$ 1$ C"3%' 1G "$ 3=% $$"2%6 J"" 5% $% 34<% 1G '?%74 ? 4 @ 5C2=' &%% 3 6 %F4$? 3=% ' 31R 15% ="5 > 42% 4 51%f ? "$ 4 @ C ?C% >$%66% 2%(1$ 1 % H%$1G% 4 13=%6 ' ?' 3=43 4 '4 ?' %B%6@ >%51 ' 4 ?' H% >4"? " ' 21C65%f 42216?" ;' 46 3=%'6% 1G?%65 5=4 ' 534 ? 3=% 54"? @%46% @ 5C7% 1$ =6%% =C ?6%? 3=1C54 ? >1C ?$ 1G " 3%6%53 31' H% >4"? C>1 ' 3=% 71 %@

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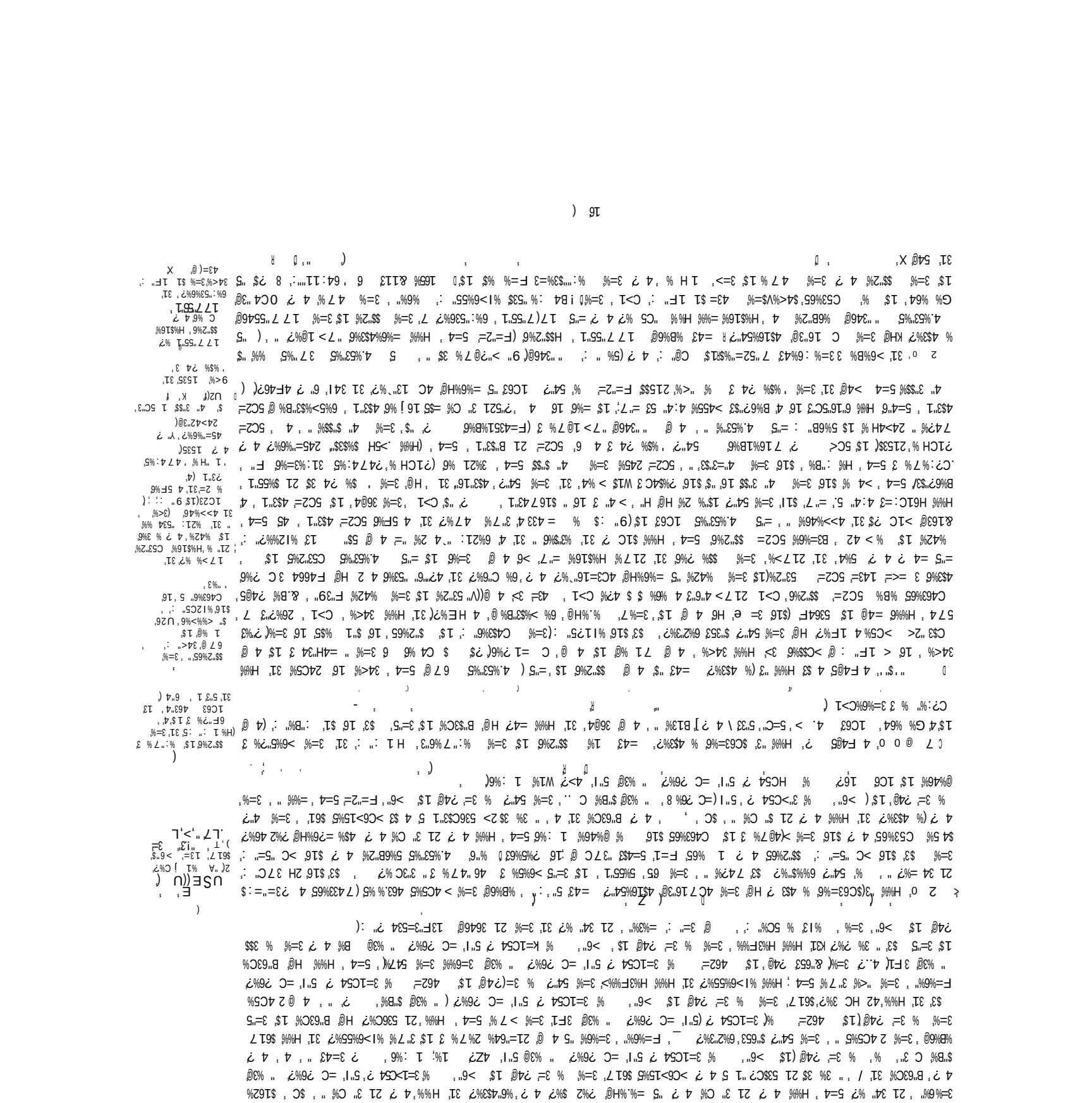

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2; 2& 31 "=?%7> "$% "6 =1745 41<% $617 $3"1 5 F="2= =% 7":=3 H%% "4H % 31 H.' 6%451 1$ ="5 &(' '5 ?"521B%6" :'31 F=17 =%% >4"? 4"'? ?"536"HC3%?' 5%B%64 5C75 1$ 71 %@ 3=%6%" 7% %>%? 31 H%% 6%2%"B%? 1C3 1$ 3=% 6%45C6% 1$ 3=% !453 ?"4 17>4 @;' 16 $16 4 @ >615%2C3"1 $16 5C2= ?"536"HC3"1 f X 8 f!88 (

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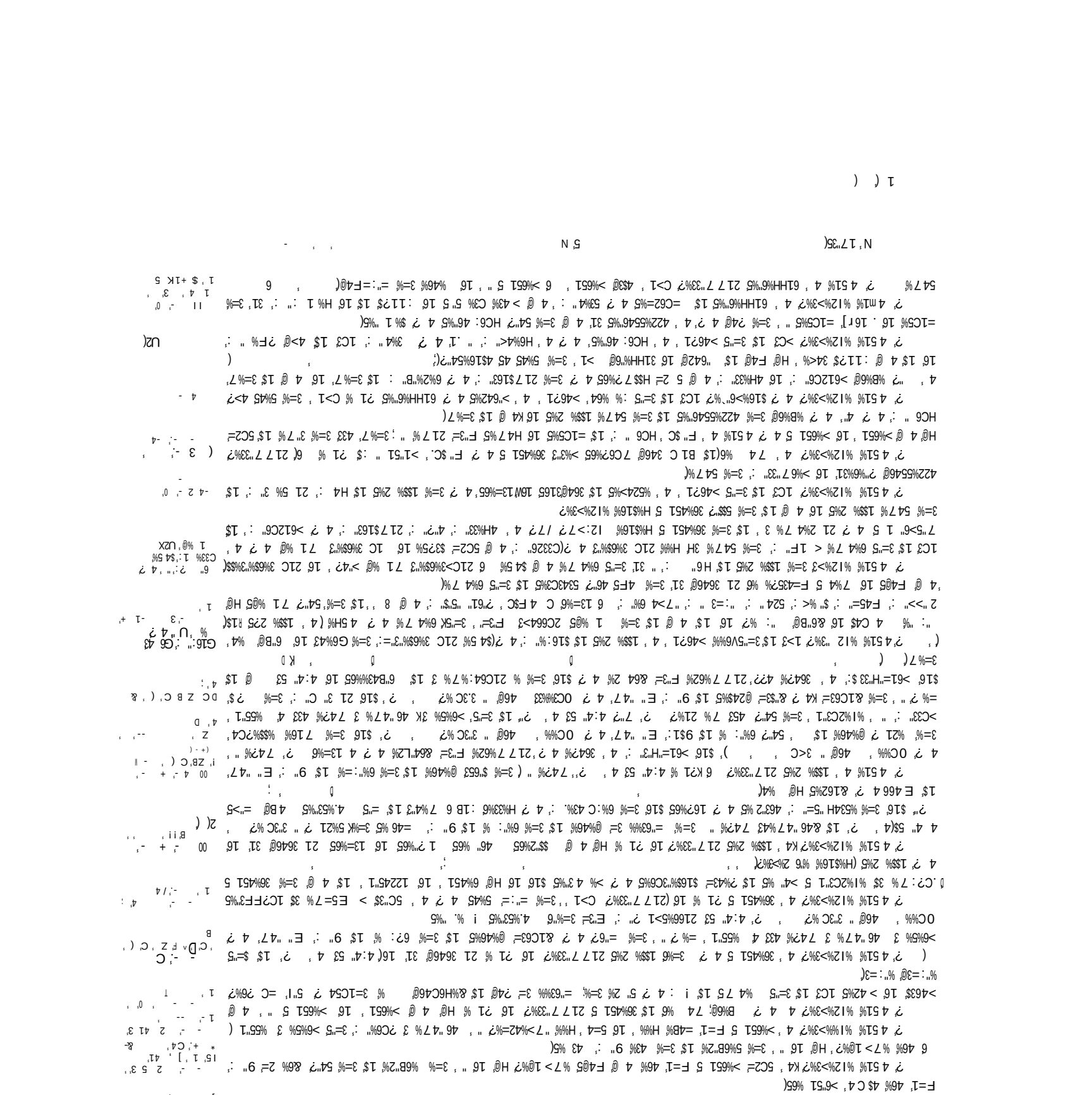

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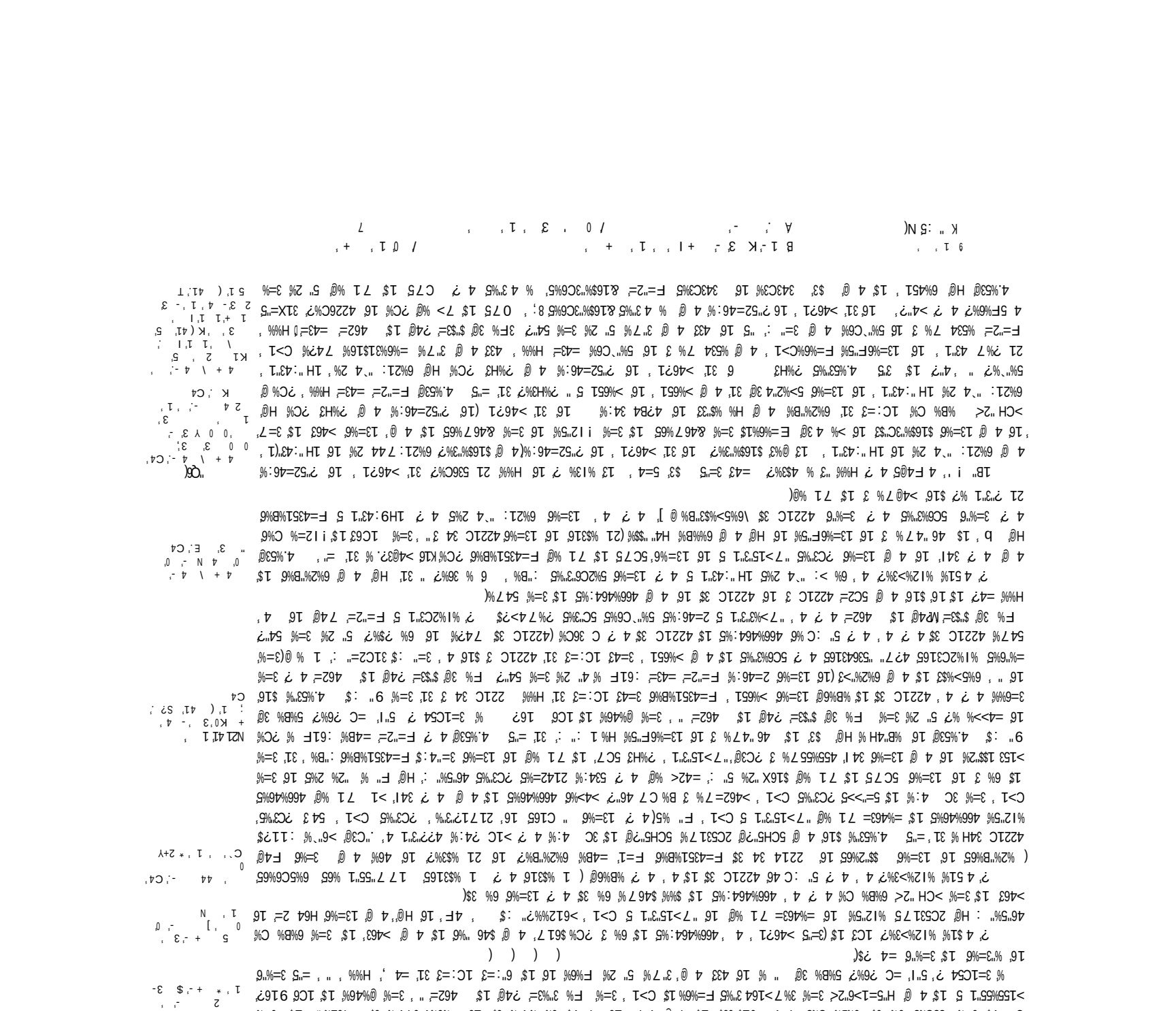

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3=% >463@ 433 F=15% 5C"3 =%% F45 1C3 4F%? ?' 3=43 3="5 >4621 ' H%% 13 4 1F%? 31' ?"52=46:'Y 4 @(1C3 4F6@
43%6 .C?:7%>3 3" ' 543.5$4$3"1 ' 16'(4:6%%7% 3 H%% 74?% 31' 16' F"3=' 3=% >463@ 433 F=15% 5C"3 3=% 1C3 4F6@ F45
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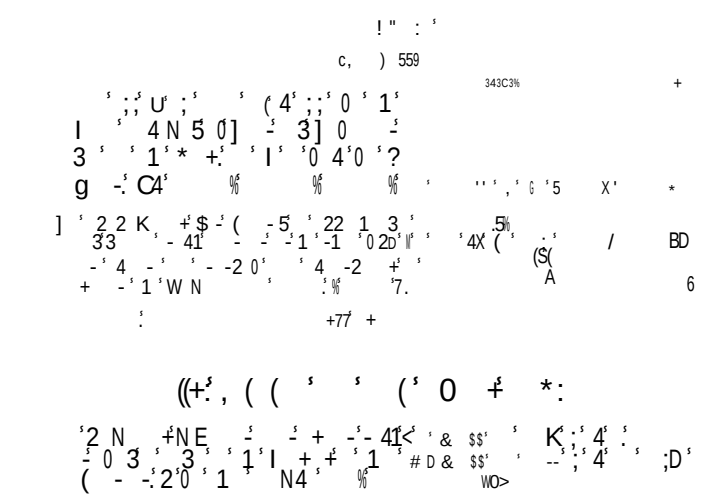

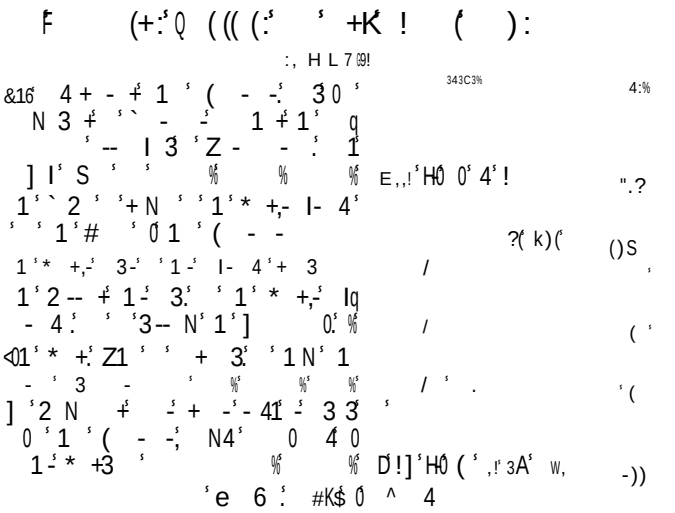

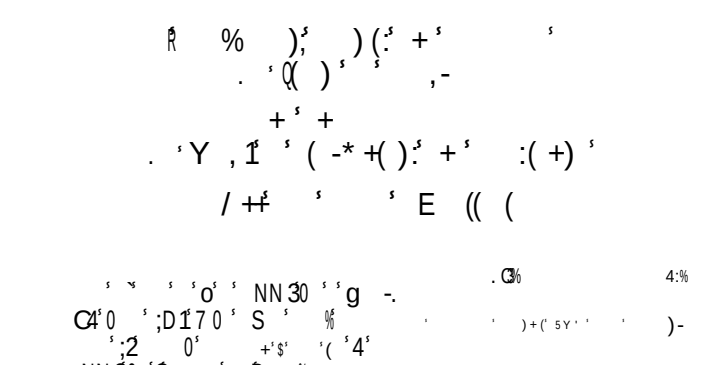

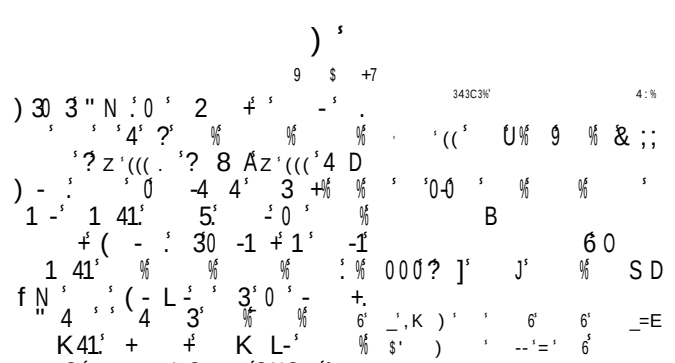

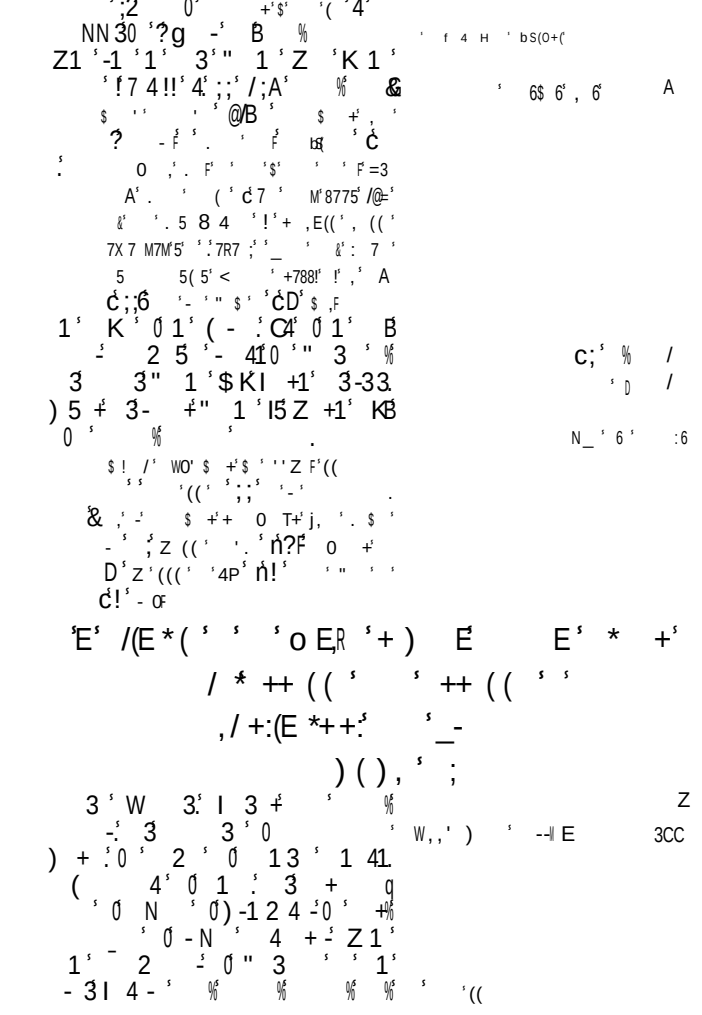

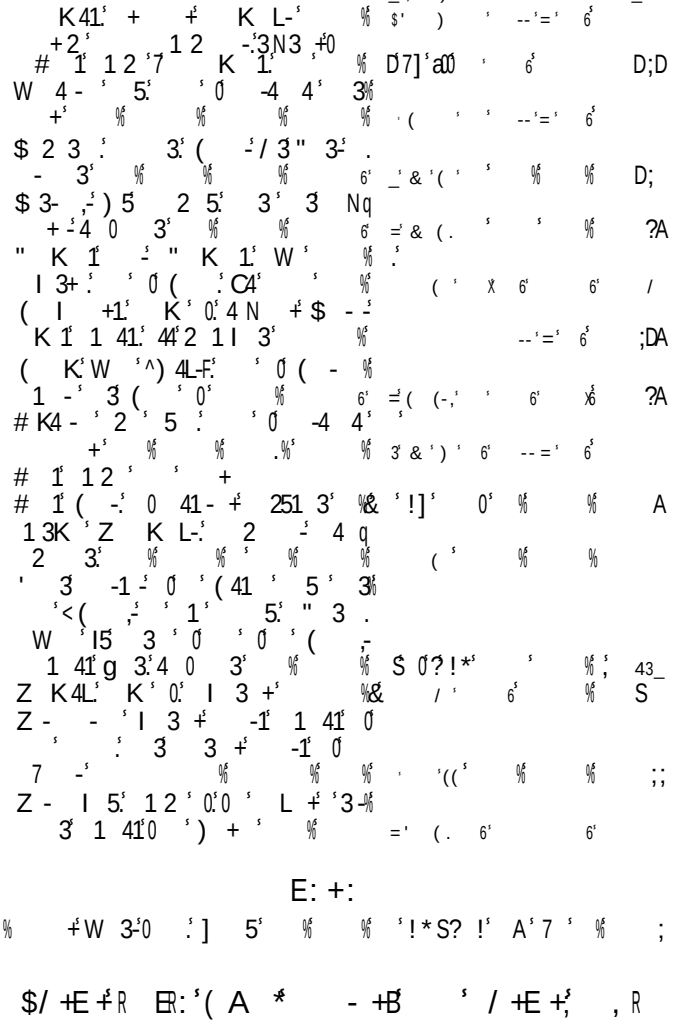

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